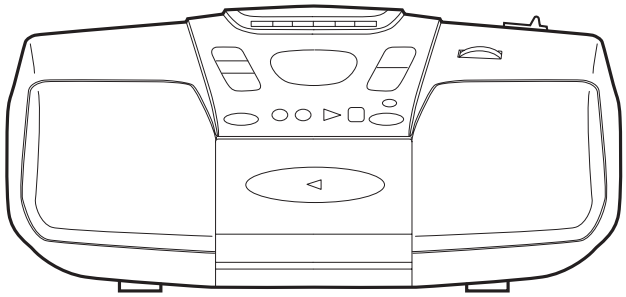
aiwa SERVICE

CSD-TD24 EZ,K
CSD-TD26 U
CSD-TD27 U
CSD-TD28 U



SERVICE MANUAL

COMPACT DISC STEREO
RADIO CASSETTE RECORDER

BASIC TAPE MECHANISM: ZZM-1 AR5NC
BASIC CD MECHANISM: DA11T3C

• This Service Manual is the “Revision Publishing” and replaces “Simple Manual” CSD-TD26/TD27/TD28 <U>, (S/M Code No. 09-011-443-0T1) and CSD-TD24 <EZ,K>, (S/M Code No. 09-012-443-0T2).

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S/M Code No. 09-013-443-0R1

REVISION DATA

SPECIFICATIONS

<Tuner section>

Frequency range

FM 87.5 - 108.0 MHz
Antenna: Rod antenna

AM<U> 530/531 - 1,710/1,602 kHz,
(10/9 kHz step)
Antenna: Ferrite bar antenna

MW<EZ,K> 531/530 - 1,602/1710 kHz,
(9/10 kHz step)
Antenna: Ferrite bar antenna

LW<EZ,K> 153 - 288 kHz
Antenna: Ferrite bar antenna

<Deck section>

Track format 4 tracks, 2 channels
Frequency range Normal tape: 50 - 12,500 Hz (EIAJ)
Recording system AC bias
Erasing system Magnet erase
Heads Recording/playback head (1)
Erasure head (1)

<CD player section>

Disc Compact disc
Scanning method Non-contact optical scanner
(semiconductor laser)

<General>

Speaker 100 mm cone type (2)
Output Headphones jack(stereo mini-jack)
Power output U:
2.5 W + 2.5 W
(EIAJ 7 ohms, T.H.D. 10 % DC)
EZ:
2.9 W + 2.9 W (DIN MUSIC POWER)
2.5 W + 2.5 W
(EIAJ 7 ohms, T.H.D. 10 % DC)
1.9 W + 1.9 W (DIN 1 %, Rated Power)
K:
2.5 W + 2.5 W
(EIAJ 7 ohms, T.H.D. 10 % DC)
1.9 W + 1.9 W (DIN 1 %, Rated Power)
Power requirements DC 12 V using eight size C (R14) batteries
U: AC 120 V, 60 Hz
EZ,K: AC 230 V, 50 Hz
Power consumption 15 W
Dimensions (W x **H** x **D)** 414 x 183 x 235 mm ($16^3/_8$ x $7^1/_4$ x $9^3/_8$ in.)
Weight 3.2 kg (7 lbs.1 oz.)
(excluding batteries)

• Design and specifications are subject to change without notice.

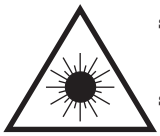
ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CHA-903-010		IB,U(ESF)FM<U>
1	8B-CHA-906-010		IB,EZ(9L)FM<EZ>
1	8B-CHA-905-010		IB,K(E)FM<K>
⚠ 2	87-A80-109-010		AC CORD,HK7281 BLK U<U>
⚠ 2	87-A80-081-010		AC CORD SET ASSY,EZ BLK<EZ,K>

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

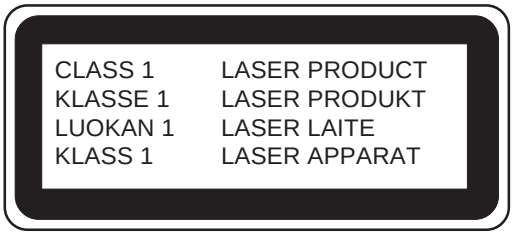
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

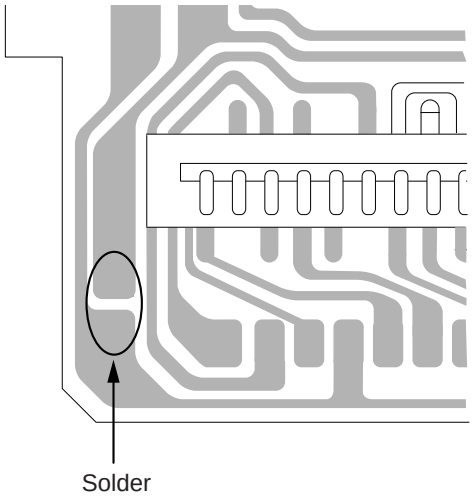
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.



ELETRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-928-010		IC,LC72131D-N
	87-A21-193-010		IC,TA8227P
	87-A21-520-040		C-IC,M61509FP<U>
	87-A21-443-040		C-IC,M62495AFP<EZ,K>
	87-A20-446-010		C-IC,LA9241ML
	87-A21-319-010		C-IC,LC78622NE
	87-A21-891-010		C-IC,MM1469XH
	8B-CHA-600-010		C-IC,LC867132V-5T67
	87-A21-550-010		IC,TA2149N
	87-A21-607-010		IC,NJM14558LD
TRANSISTOR			
	87-026-447-080		TR,2SC1740SR
	87-026-463-080		TR,2SA933SRS
	89-318-154-080		TR,2SC1815Y
	89-112-965-080		TR,2SA1296GR
	87-026-291-080		TR,DTC124XS
	87-026-464-080		TR,DTC114TS
	87-A30-476-010		TR,KTA1046Y
	87-026-462-080		TR,2SC1740SRS
	89-109-332-380		TR,2SA933RS
	87-A30-515-080		TR,2SA1979O/Y
	89-320-011-080		TR,2SC2001K<EZ,K>
	87-A30-288-040		C-TR,DTC114YKA
	87-A30-287-040		C-TR,DTC114TKA
	87-A30-455-040		C-TR,DTA144EKA
	87-026-239-080		C-TR,DTC114TK
	87-026-237-080		C-TR,DTC124XK
	87-A30-283-040		C-TR,DTA114YKA<EZ,K>
	89-111-624-080		C-TR,2SA1162Y
	89-503-025-010		C-FET,2SK302GR<EZ,K>
DIODE			
	87-A40-650-080		ZENER,MTZJ6.8A<EZ,K>
	87-A40-509-080		ZENER,MTZJ6.8C<U>
	87-070-345-080		DIODE,IN4148
	87-A40-648-080		ZENER,MTZJ8.2A
	87-A40-234-080		ZENER,MTZJ5.6A
	87-017-978-080		DIODE,1N4003
	87-017-932-080		ZENER,MTZJ6.2B
	87-020-465-080		DIODE,1SS133
	87-A40-465-010		DIODE,FR202
	87-017-090-080		ZENER,HZS5B3
MAIN C.B			
C211	87-A11-603-080		C-CAP,S 0.15-16 K B
C212	87-A11-603-080		C-CAP,S 0.15-16 K B
C215	87-016-460-080		C-CAP,S 0.22-16 B
C216	87-016-460-080		C-CAP,S 0.22-16 B
C231	87-010-213-080		C-CAP,S 0.015-50 B
C232	87-010-213-080		C-CAP,S 0.015-50 B
C233	87-A10-201-080		C-CAP,S0.33-16 KB
C234	87-A10-201-080		C-CAP,S0.33-16 KB
C235	87-016-669-080		C-CAP,S 0.1-25 K B
C236	87-016-669-080		C-CAP,S 0.1-25 K B
C237	87-010-371-080		CAP, ELECT 470-6.3V
C239	87-010-197-080		CAP, CHIP 0.01 DM<U>
C239	87-010-805-080		C-CAP,S 1-16 Z F<EZ,K>
C240	87-010-197-080		CAP, CHIP 0.01 DM<U>
C240	87-010-805-080		C-CAP,S 1-16 Z F<EZ,K>
C247	87-010-401-080		CAP, ELECT 1-50V
C248	87-010-401-080		CAP, ELECT 1-50V
C310	87-010-248-080		CAP, ELECT 220-10V
C316	87-010-263-080		CAP, ELECT 100-10V
C317	87-010-197-080		CAP,CHIP 0.01 DM
C801	87-010-248-080		CAP, ELECT 220-10V
C805	87-012-365-080		C-CAP,S 0.027-25VBK
C806	87-012-365-080		C-CAP,S 0.027-25VBK
C807	87-010-406-080		CAP, ELECT 22-50V
C808	87-010-405-080		CAP, ELECT 22-50V
C809	87-010-401-080		CAP, ELECT 1-50V
C810	87-010-401-080		CAP, ELECT 1-50V
C811	87-010-178-080		CHIP CAP 1000P
C812	87-010-178-080		CHIP CAP 1000P
C816	87-010-180-080		C-CER 1500P
C817	87-010-180-080		C-CER 1500P
C821	87-010-401-080		CAP, ELECT 1-50V
C822	87-010-401-080		CAP, ELECT 1-50V
C823	87-010-178-080		CHIP CAP 1000P
C824	87-010-178-080		CHIP CAP 1000P
C829	87-010-178-080		CHIP CAP 1000P
C830	87-010-178-080		CHIP CAP 1000P
C834	87-010-248-080		CAP, ELECT 220-10V
C843	87-A11-132-080		CAP, TC U 0.01-50 KB
C844	87-018-124-080		CAP, CER 270P-50V
C845	87-010-178-080		CHIP CAP 1000P
C846	87-010-263-080		CAP, ELECT 100-10V
C851	87-010-186-080		CAP,CHIP 4700P
C852	87-018-131-080		CAP, TC U 1000P
C853	87-A11-132-080		CAP,TC U 0.01-50 K B
CN201	87-099-018-010		CONN,16P
CN801	87-A60-110-010		CONN,4P V S2M-4W
CNA302	8B-CDA-629-010		CONN ASSY,6P MA-TU
CNA801	8B-CDA-630-010		CONN ASSY,4P RPH
L108	87-003-097-080		COIL,1.0UH K LAL02
L801	87-007-342-010		COIL,OSC 85K BIAS
SW801	8Z-CD9-609-010		SW,SL 1-6-2 PS62D01
CD C.B			
C30	87-010-260-080		CAP, ELECT 47-25V
C251	87-010-405-080		CAP, ELECT 10-50V
C263	87-010-178-080		CHIP CAP 1000P
C264	87-010-178-080		CHIP CAP 1000P
C265	87-010-263-080		CAP, ELECT 100-10V
C266	87-010-263-080		CAP, ELECT 100-10V
C267	87-010-385-080		CAP, ELECT 220-25V
C268	87-010-385-080		CAP, ELECT 220-25V
C271	87-010-221-080		CAP, ELECT 470-10V
C272	87-010-221-080		CAP, ELECT 470-10V
C278	87-010-385-080		CAP, ELECT 220-25V
C279	87-010-235-080		CAP, ELECT 470-16V
C301	87-016-495-000		CAP,E 3300-25 M SMG
C306	87-010-404-080		CAP, ELECT 4.7-50V
C307	87-010-401-080		CAP, ELECT 1-50V
C308	87-010-221-080		CAP, ELECT 470-10V
C311	87-010-265-080		CAP, ELECT 33-16V
C312	87-010-385-080		CAP, ELECT 220-25V
C321	87-010-197-080		CAP, CHIP 0.01 DM
C322	87-010-263-080		CAP, ELECT 100-10V
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-405-080		CAP, ELECT 10-50V
C401	87-010-403-080		CAP, ELECT 3.3-50V
C402	87-010-197-080		CAP, CHIP 0.01 DM
C403	87-010-263-080		CAP, ELECT 100-10V
C404	87-010-248-080		CAP, ELECT 220-10V
C405	87-010-197-080		CAP, CHIP 0.01 DM
C406	87-010-374-080		CAP, ELECT 47-10V
C407	87-010-178-080		CHIP CAP 1000P
C408	87-010-198-080		CAP, CHIP 0.022
C409	87-010-248-080		CAP, ELECT 220-10V
C410	87-010-263-080		CAP, ELECT 100-10V
C411	87-A11-177-080		C-CAP,S 0.15-16 K B
C412	87-010-401-080		CAP, ELECT 1-50V
C413	87-016-369-080		C-CAP,S 0.033-25 B K

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C414	87-010-405-080		CAP, ELECT 10-50V
C416	87-010-545-080		CAP, ELECT 0.22-50V
C417	87-012-157-080		C-CAP,S 330P-50 CH
C418	87-010-213-080		C-CAP,S 0.015-50 B
C419	87-A11-608-080		C-CAP,S 0.33-25 K B
C420	87-016-369-080		C-CAP,S 0.033-25 B K
C421	87-A11-177-080		C-CAP,S 0.15-16 K B
C422	87-010-184-080		CHIP CAPACITOR 3300P(K)
C423	87-010-992-080		C-CAP,S 0.047-25 B
C424	87-A11-606-080		C-CAP,S 0.22-25 K B
C425	87-018-129-080		CAP,TC U 680P-50 K B
C426	87-A11-608-080		C-CAP,S 0.33-25 K B
C428	87-010-197-080		CAP, CHIP 0.01 DM
C429	87-010-186-080		CAP,CHIP 4700P
C430	87-012-156-080		C-CAP,S 220P-50 CH
C431	87-010-545-080		CAP, ELECT 0.22-50V
C432	87-010-374-080		CAP, ELECT 47-10V
C433	87-010-401-080		CAP, ELECT 1-50V
C434	87-010-184-080		CHIP CAPACITOR 3300P(K)
C435	87-010-197-080		CAP, CHIP 0.01 DM
C436	87-010-374-080		CAP, ELECT 47-10V
C437	87-010-404-080		CAP, ELECT 4.7-50V
C438	87-016-669-080		C-CAP,S 0.1-25 K B
C439	87-010-178-080		CHIP CAP 1000P
C440	87-018-139-080		CAP,TC U 1P-50 CH
C441	87-010-197-080		CAP, CHIP 0.01 DM
C442	87-018-109-080		CAP, TC U 22P-50 SL
C445	87-012-368-080		C-CAP,S 0.1-50 F
C446	87-012-368-080		C-CAP,S 0.1-50 F
C447	87-012-368-080		C-CAP,S 0.1-50 F
C448	87-010-315-080		C-CAP,S 27P-50 CH
C451	87-012-156-080		C-CAP,S 220P-50 CH
C455	87-010-247-080		CAP, ELECT 100-50V
C457	87-010-312-080		C-CAP,S 15P-50 CH
C458	87-010-312-080		C-CAP,S 15P-50 CH
C459	87-010-263-080		CAP, ELECT 100-10V
C460	87-015-819-080		CAPACITOR,0.01
C461	87-010-197-080		CAP, CHIP 0.01 DM
C462	87-010-248-080		CAP, ELECT 220-10V
C463	87-A11-132-080		CAP, TC U 0.01-50 KB
C465	87-010-404-080		CAP, ELECT 4.7-50V
C466	87-012-368-080		C-CAP,S 0.1-50 F
C467	87-010-263-080		CAP, ELECT 100-10V
C469	87-012-154-080		C-CAP,S 150P-50 CH
C470	87-018-131-080		CAP,TC U 1000P-50 KB UP050<EZ,K>
C471	87-018-209-080		CAP, TC U 0.1-50 ZF
C472	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C473	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C474	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C475	87-A11-132-080		CAP, TC U 0.01-50 K B
C476	87-010-236-080		CAP,E 1000-10 SME
C477	87-010-197-080		CAP, CHIP 0.01 DM
C478	87-010-263-080		CAP, ELECT 100-10V
C479	87-010-197-080		CAP, CHIP 0.01 DM
C480	87-010-221-080		CAP, ELECT 470-10V
C481	87-010-405-080		CAP, ELECT 10-50V
C482	87-010-405-080		CAP, ELECT 10-50V
C489	87-012-368-080		C-CAP,S 0.1-50 F
C490	87-012-368-080		C-CAP,S 0.1-50 F
C491	87-A11-132-080		CAP, TC U 0.01-50KB
C492	87-010-221-080		CAP, ELECT 470-10V
C493	87-010-180-080		C-CER 1500P<U>
C501	87-012-368-080		C-CAP,S 0.1-50 F
C502	87-010-322-080		C-CAP,S 100P-50 CH
C503	87-018-119-080		CAP,TC U 100P-50 KB
C504	87-010-322-080		C-CAP,S 100P-50 CH
C505	87-010-322-080		C-CAP,S 100P-50 CH
C506	87-010-322-080		C-CAP,S 100P-50 CH
C510	87-016-669-080		C-CAP,S 0.1-25 K B
C831	87-010-198-080		CAP, CHIP 0.022

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN202	8A-CH4-687-010		CONN,4P V 2.5
CN205	87-A60-109-010		CONN,2P V S2M-2W
CN301	8A-CH4-689-010		CONN,3P V 2.5
CN401	87-A60-424-010		CONN,16P V TOC-B
CN403	87-099-201-010		CONN,8P 6216 H
CN802	8A-CH4-687-010		CONN,4P V 2.5
CNA202	8B-CDA-633-010		CONN ASSY,4P SP
CNA205	8B-CDA-626-010		CONN ASSY,2P DOOR
CNA402	8B-CDA-625-010		CONN ASSY,6P CD-ME
CNA802	8B-CDA-631-010		CONN ASSY,4P TA-ME
FFC401	8B-CDA-621-010		FF-CABLE,16P CD-RF
FFC403	8B-CDA-622-010		FF-CABLE,8P CD-FR
J201	87-A60-420-010		JACK,3.5 ST (MSC)
JW429	87-003-283-080		COIL,18UH J LAL02<EZ,K>
JW442	87-003-098-080		COIL,2.2UH K LAL02<EZ,K>
L401	87-003-102-080		COIL, 10UH
L402	87-003-098-080		COIL,2.2UH K LAL02<EZ,K>
L404	87-003-152-080		COIL, 100UH
R840	87-029-124-010		RES,FUSE 2.2-1/4
SFR430	87-024-437-080		SFR,100K RH063MC
X401	8Z-CD5-633-010		VIB, CER16.93MHZ FCR16.93M2

FRONT C.B

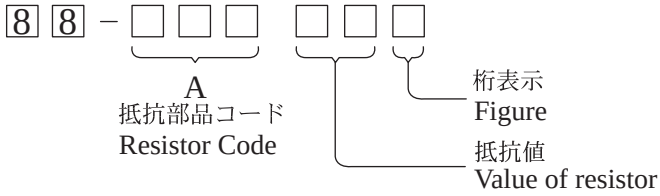
C601	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C602	87-010-555-040		CAP,E 100-10 M 5L SRE
C603	87-A10-189-040		CAP,E 220-10 M 5L
C604	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C605	87-018-150-080		CAP,TC U 18P-50 J CH UP050
C606	87-018-111-080		CAP,TC U 27P-50 J SL UP050
C607	87-018-116-080		CAP,TC U 56P-50 J SL UP050
C608	87-018-114-080		CAP,TC U 39P-50 J SL UP050
C609	87-018-149-080		CAP,TC U 15P-50 J CH UP050
C610	87-015-785-080		C-CAP,0.1-25 Z F C3216
C611	87-010-197-010		CAP,CHIP 0.01 DM
C612	87-018-131-080		CAP,TC U 1000P-50 K B UP050
C613	87-A10-826-080		C-CAP,S 1-10 K B
C614	87-010-494-040		CAP,E 1-50 M 5L SRE
C615	87-010-493-040		CAP,E 0.47-50 M 5L SRE
C616	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C617	87-010-495-040		CAP E 2.2-50 M 5L SRE
C618	87-010-197-010		CAP, S 0.01-25<U>
C619	87-010-197-010		CAP, S 0.01-25
C625	87-010-197-010		CAP,CHIP 0.01 DM
C626	87-010-197-010		CAP,CHIP 0.01 DM
C627	87-010-197-010		CAP,CHIP 0.01 DM
CN601	87-099-757-010		CONN,16P H 9604
CN602	87-A60-079-010		CONN,08P H 9604S-08F
CNA603	8B-CHA-610-010		CONN ASSY,4P TU-FR
FFC601	8B-CDA-620-010		FF-CABLE,16P FR-MAIN
L601	87-003-102-080		COIL,10UH J LAL02
L602	87-003-102-080		COIL,10UH J LAL02
LCD601	8B-CHA-620-010		LCD,AIW4239-32PIN
LED601	8A-CDA-646-010		LED,6224-10GD GRN<U>
LED602	8A-CDA-645-010		LED,6224-10ID RED
LED603	8A-CDA-645-010		LED,6224-10ID RED
S601	87-A92-170-080		SW,TACT EVQPAD05R
S602	87-A92-170-080		SW,TACT EVQPAD05R
S603	87-A92-170-080		SW,TACT EVQPAD05R
S604	87-A92-170-080		SW,TACT EVQPAD05R
S605	87-A92-170-080		SW,TACT EVQPAD05R
S606	87-A92-170-080		SW,TACT EVQPAD05R
S607	87-A92-170-080		SW,TACT EVQPAD05R<U>
S608	87-A92-170-080		SW,TACT EVQPAD05R<U>
S609	87-A91-704-080		SW,TACT EVQ 214 05R<EZ,K>
S611	87-A92-170-080		SW,TACT EVQPAD05R
S612	87-A92-170-080		SW,TACT EVQPAD05R
S613	87-A92-170-080		SW,TACT EVQPAD05R
S614	87-A92-170-080		SW,TACT EVQPAD05R

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S615	87-A92-170-080		SW,TACT EVQPAD05R
X601	87-030-273-010		VIB,XTAL 32.768KHZ DT-38 5P
X602	87-030-376-080		VIB,CER 5.760MHZ CSA MG200
TUNER C.B			
C1	87-010-312-080		C-CAP,S 15P-50 J CH GRM
C2	87-010-316-080		C-CAP,S 33P-50 CH
C3	87-010-312-080		C-CAP,S 15P-50 J CH GRM
C5	87-012-360-080		C-CAP,S 1-10 Z F CM/CB<EZ,K>
C6	87-010-313-080		C-CAP,S 18P-50 J CH GRM<U>
C7	87-012-140-080		C-CAP,S 470P-50 J CH<U>
C7	87-014-049-080		CAP,PP 470P-100 J PL<EZ,K>
C8	87-012-349-080		C-CAP,S 1000P-50 J CH GRM
C10	87-010-197-080		CAP, CHIP 0.01 DM
C11	87-010-197-080		CAP, CHIP 0.01 DM
C12	87-010-197-080		CAP, CHIP 0.01 DM
C13	87-010-150-080		C-CAP,S 6P-50 D CH
C14	87-010-303-080		C-CAP,330P-50 J CH
C15	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C16	87-010-374-080		CAP,E 47-10 M 11L SME
C17	87-010-198-080		C-CAP,S 0.022-25 K B C2012
C18	87-015-835-080		C-CAP,0.047-50 K B
C19	87-010-263-080		CAP,E 100-10 M 11L SME
C20	87-010-404-080		CAP,E 4.7-50V
C23	87-010-197-080		CAP, CHIP 0.01 DM
C24	87-010-303-080		C-CAP,330P-50 J CH
C25	87-016-460-080		C-CAP,S 0.22-16 K B
C27	87-A11-067-080		C-CAP,S 1-10 K B
C28	87-016-669-080		C-CAP,S 0.1-25 K B
C29	87-016-669-080		C-CAP,S 0.1-25 K B
C30	87-012-365-080		C-CAP,S 0.027-25 K B<U>
C30	87-010-220-080		C-CAP,S 0.018-25 K B<EZ,K>
C31	87-012-365-080		C-CAP,S 0.027-25 K B<U>
C31	87-010-220-080		C-CAP,S 0.018-25 K B<EZ,K>
C33	87-012-358-080		C-CAP,S 0.47-10 Z F CM/CB
C34	87-012-358-080		C-CAP,S 0.47-10 Z F CM/CB
C35	87-010-197-080		CAP, CHIP 0.01 DM
C36	87-010-263-080		CAP, ELECT 100-10V
C37	87-010-197-080		CAP, CHIP 0.01 DM
C38	87-010-263-080		CAP,E 100-10 M 11L SME
C39	87-010-404-080		CAP,E 4.7-50 M 11L SME
C40	87-010-197-080		CAP, CHIP 0.01 DM
C41	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C42	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C43	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C44	87-010-311-080		C-CAP,S 12P-50 J CH GRM
C45	87-010-312-080		C-CAP,S 15P-50 J CH GRM
C46	87-010-197-080		CAP, CHIP 0.01 DM
C47	87-010-197-080		CAP, CHIP 0.01 DM
C48	87-010-197-080		CAP, CHIP 0.01 DM
C49	87-012-140-080		C-CAP,S 470P-50 J CH
C50	87-010-197-080		CAP, CHIP 0.01 DM
C51	87-010-316-080		C-CAP,S 33P-50 J CH GRM<EZ,K>
C52	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>
C53	87-010-197-080		CAP, CHIP 0.01 DM<EZ,K>
C54	87-010-177-080		C-CAP,S 820P-50 J SL<EZ,K>
C55	87-010-197-080		CAP, CHIP 0.01 DM<EXCEPT U>
C56	87-010-312-080		C-CAP,S 15P-50 J CH GRM<EZ,K>
C71	87-010-197-080		CAP, CHIP 0.01 DM
C72	87-010-263-080		CAP, ELECT 100-10V
C73	87-010-197-080		CAP, CHIP 0.01 DM
C75	87-010-197-080		CAP, CHIP 0.01 DM
C80	87-010-197-080		CAP, CHIP 0.01 DM
C92	87-010-197-080		CAP, CHIP 0.01 DM
C93	87-010-197-080		CAP, CHIP 0.01 DM
CF1	87-A91-094-010		FLTR,CDA10.7 MG80A
CF2	87-008-261-010		FILTER, SFE10.7MA5-A
CN2	87-099-854-010		CONN,6P V S2M-6W
CN3	87-A60-110-010		CONN,4P V S2M-4W

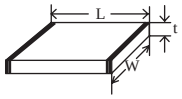
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
D3	87-A40-616-070		VARI-CAP,SVC384(S/T)
D4	87-A40-916-040		C-VARI-CAP,HVC202A
D5	87-A40-916-040		C-VARI-CAP,HVC202A
L2	87-A50-560-010		COIL,FM BPF(ACD)
L3	8A-CH4-670-010		BAR-ANT,MW 2B-ACH(COI)<U>
L3	8A-CH4-671-010		BAR-ANT,MW/LW 3B-ACH(COI)<EZ,K>
L4	87-A50-420-010		COIL,MW OSC(SYN)
L5	87-A50-566-010		COIL,FM RF EX(ACH)
L6	87-A50-567-010		COIL,FM OSC(ACH)
L7	87-A91-308-010		FLTR,PCFAZH- 450T (TOK)
L8	87-005-849-080		COIL,10UH K CECS
L51	87-A50-421-010		COIL,LW OSC(SYN)<EZ,K>
TC1	87-011-254-080		TRIMMER,CER 20P 4.0X4.5 ECR
TC51	87-A91-659-010		TRIMMER,50P 4.0X4.5 ECRL<EZ,K>
X1	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
BATT C.B			
C901	87-010-192-080		C-CAP,S 0.022-50 F
C902	87-010-192-080		C-CAP,S 0.022-50 F
C903	87-010-192-080		C-CAP,S 0.022-50 F
C904	87-010-192-080		C-CAP,S 0.022-50 F
CNA901	8B-CDA-627-010		CONN ASSY,3P PWR
⚠ J901	87-A60-178-010		JACK,AC E W/SW<EZ,K>
⚠ J901	87-A60-177-010		JACK,AC U W/SW<U>
⚠ PR901	87-A91-940-080		PROTECTOR,2.5A 20P 60V
⚠ PT901	8A-CDA-612-010		PT,E 2.5W<EZ,K>
⚠ PT901	8A-CDA-611-010		PT,U 2.5W<U>
SP901	8A-CDA-214-010		SPR-C,BATT
SP902	8A-CDA-214-010		SPR-C,BATT
BATT INF C.B			
SP903	8A-CDA-214-010		SPR-C,BATT
SP904	8A-CDA-214-010		SPR-C,BATT
CD MOTOR C.B			
M2	S0-M10-A09-700		MOTOR SLED ASSY
PIN3	S2-369-750-000		PLUG,6P
SW1	S4-S13-A01-600		SW,LEAF

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



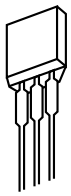
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード Resistor Code ：A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

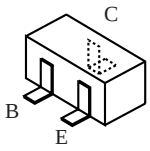
TRANSISTOR ILLUSTRATION

2SA1979O/Y
2SC2001K

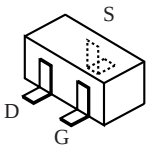
2SA1296GR
2SC1815Y



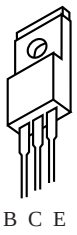
2SA933RS
2SA933SRS
2SC1740SR
2SC1740SRS
DTC114TS
DTC124XS



2SA1162Y
DTA114EKA
DTA114YKA
DTC114TK
DTC114TKA
DTC114YKA
DTC124XK

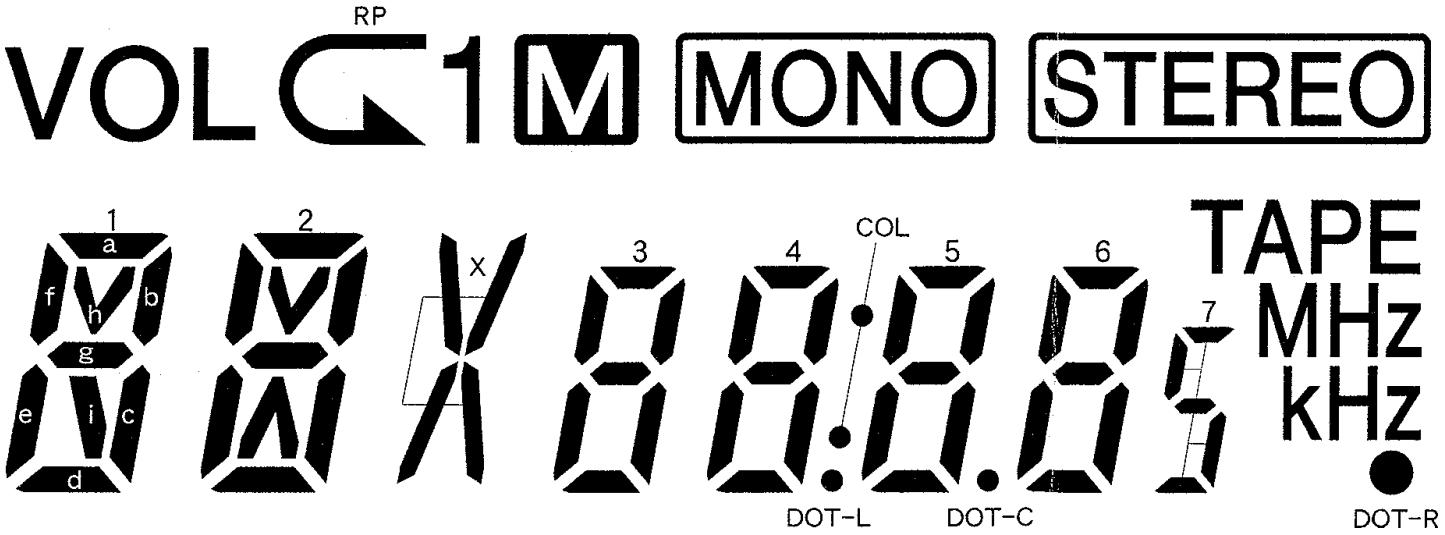


2SK302GR

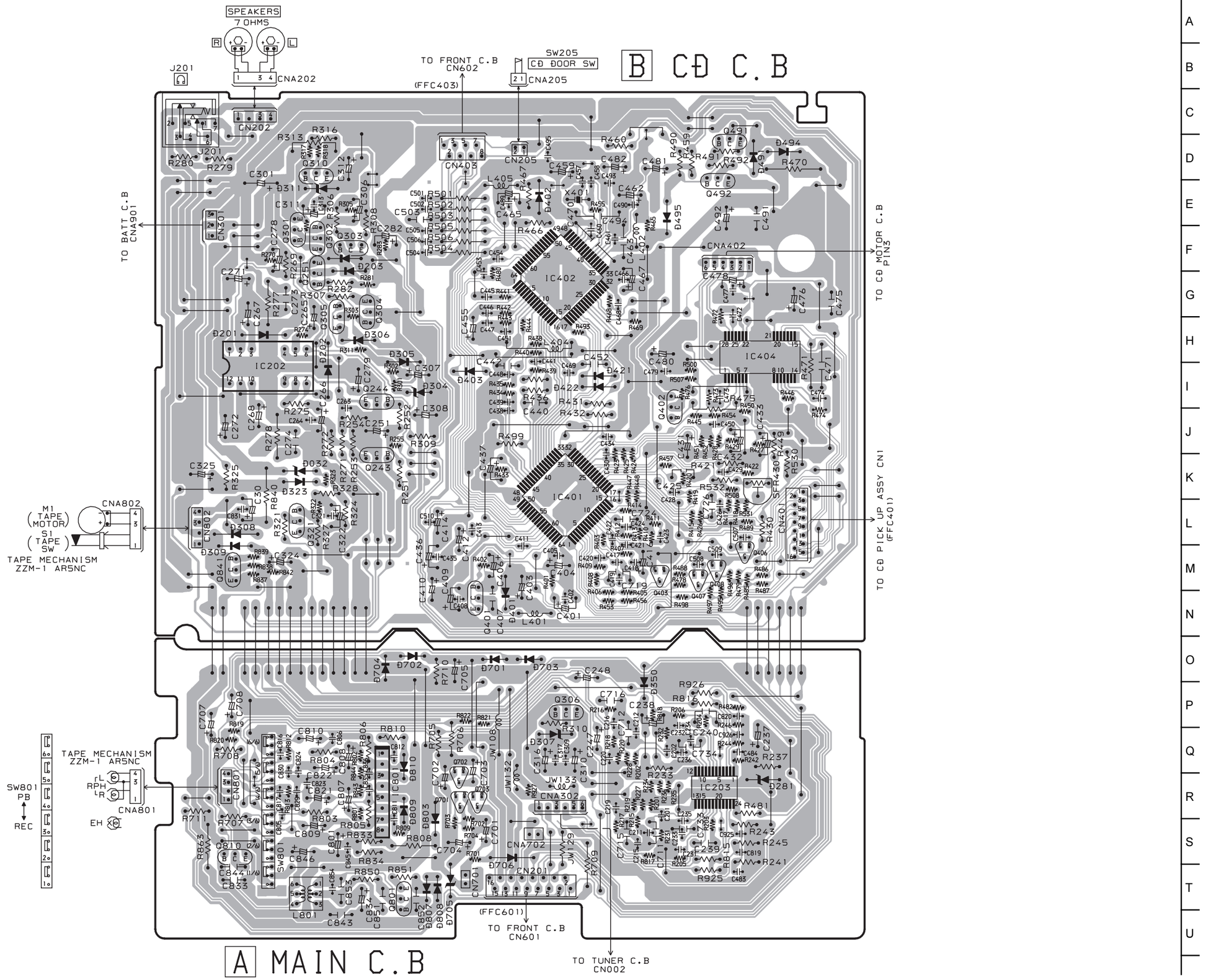


KTA1046Y

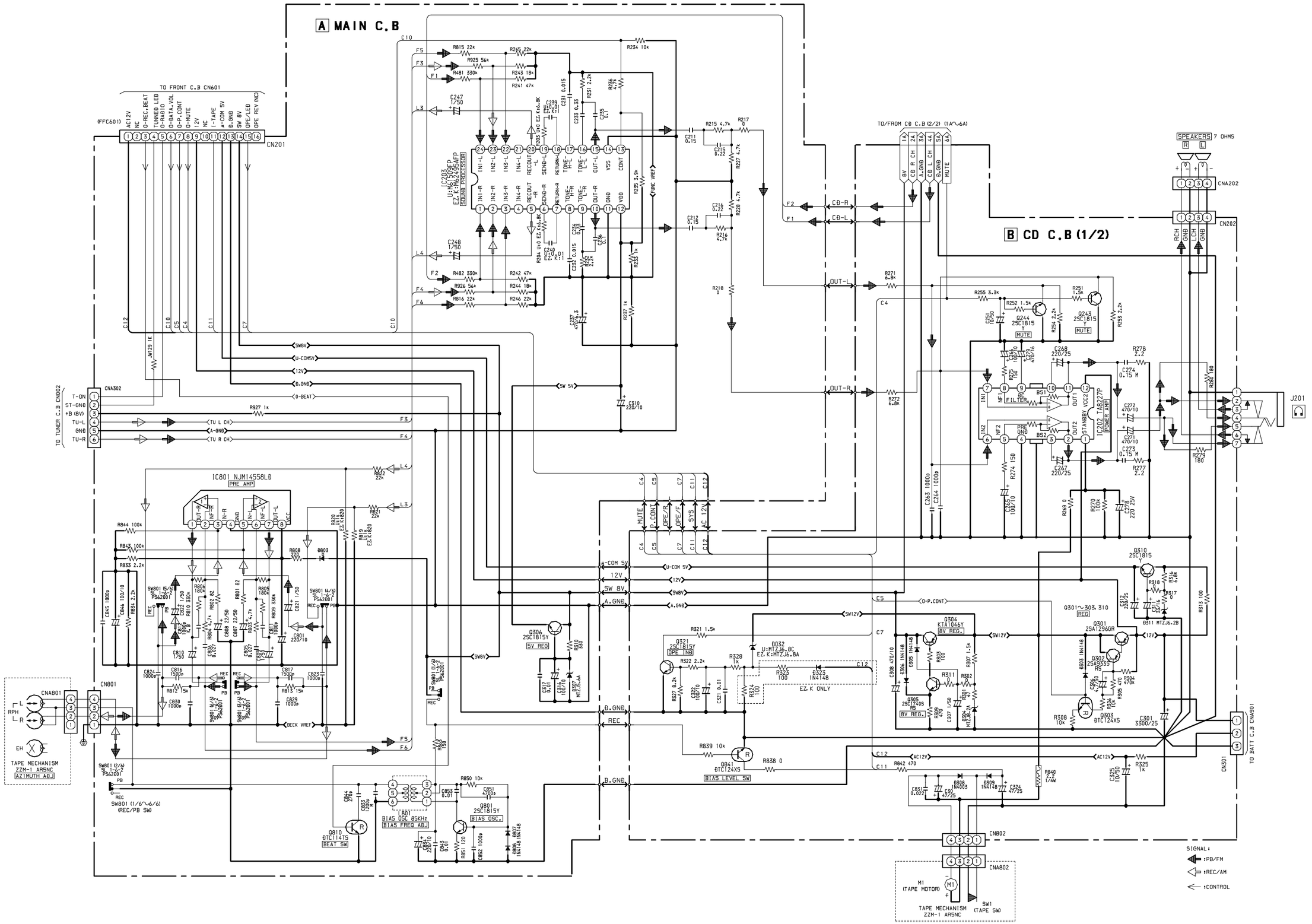
LCD DISPLAY (AIW4239-32PIN)

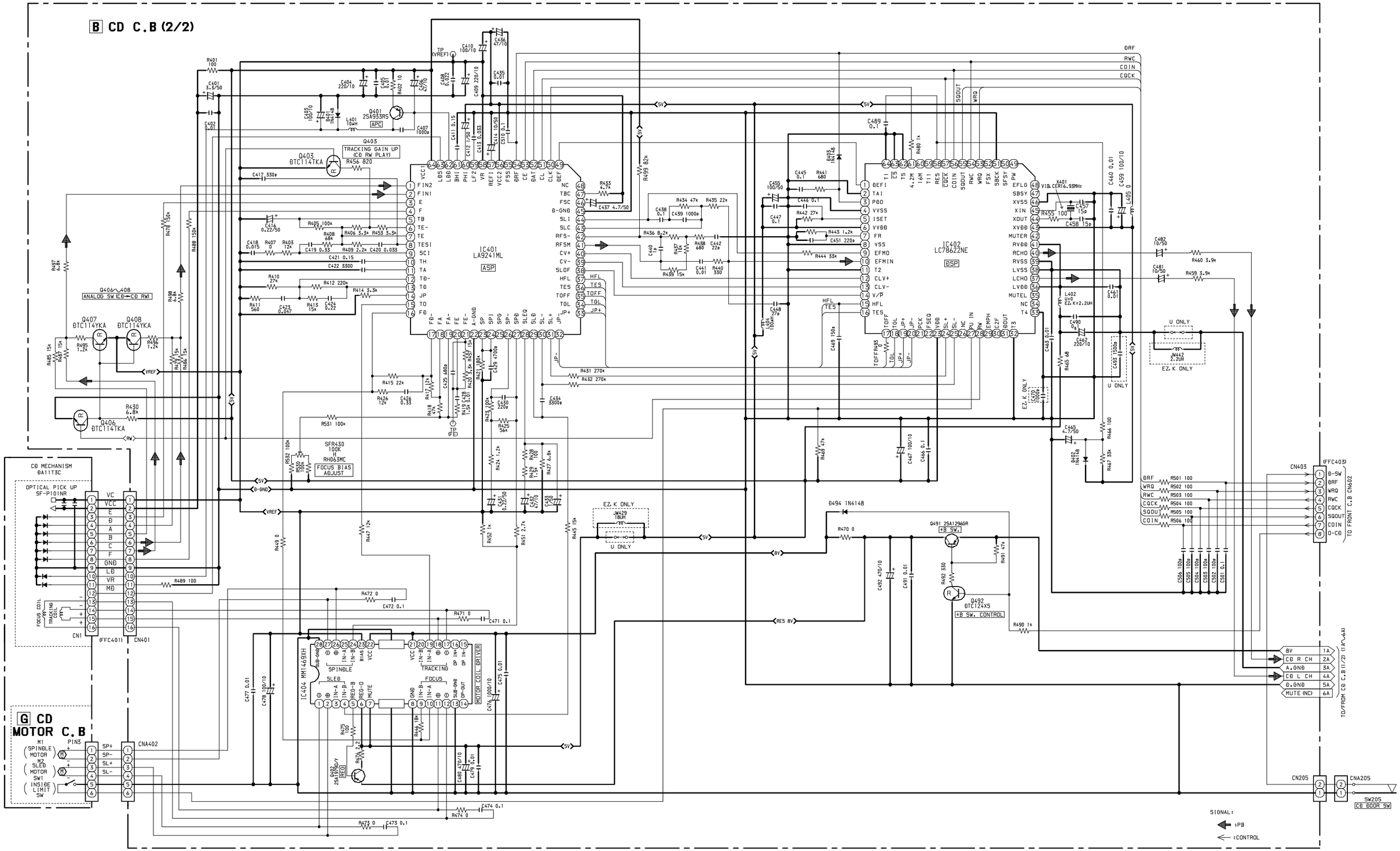


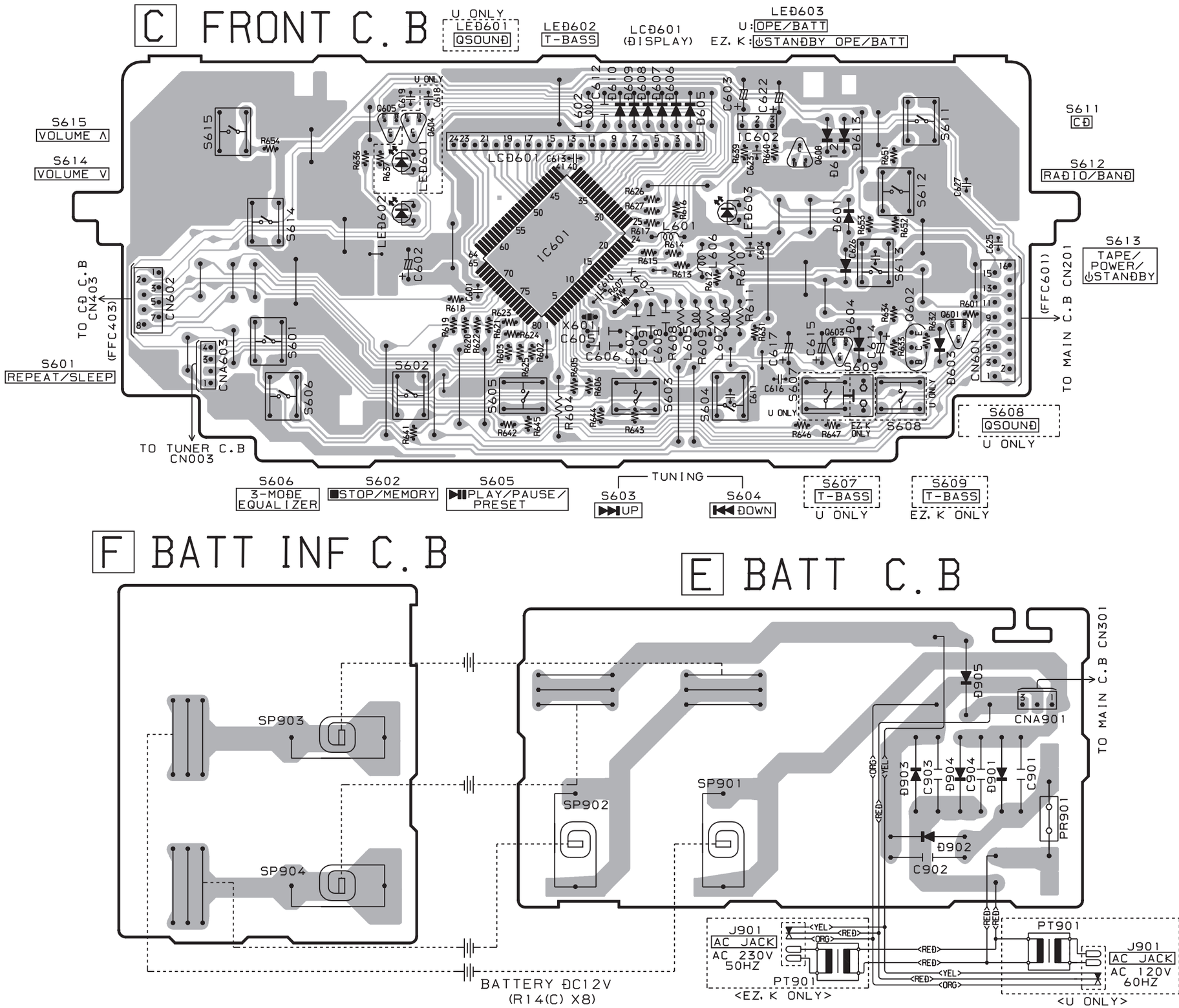
NO	COM1	COM2	COM3
1	2b	2c	2d
2	1b	1c	1d
3	1a	1f	1e
4	1h	1g	1i
5	—	—	VOL
6	2a	2f	2e
7	2h	2g	2i
8	3f	3e	RP
9	3a	3g	3d
10	3b	3c	1
11	4f	4e	M
12	4a	4g	4d
13	4b	4c	X
14	col	DOT-L	MONO
15	5f	5e	DOT-R
16	5a	5g	5d
17	5b	5c	DOT-C
18	6f	6e	STEREO
19	6a	6g	6d
20	6b	6c	7
21	TAPE	MHz	KHz
22	COM1	—	—
23	—	COM2	—
24	—	—	COM3

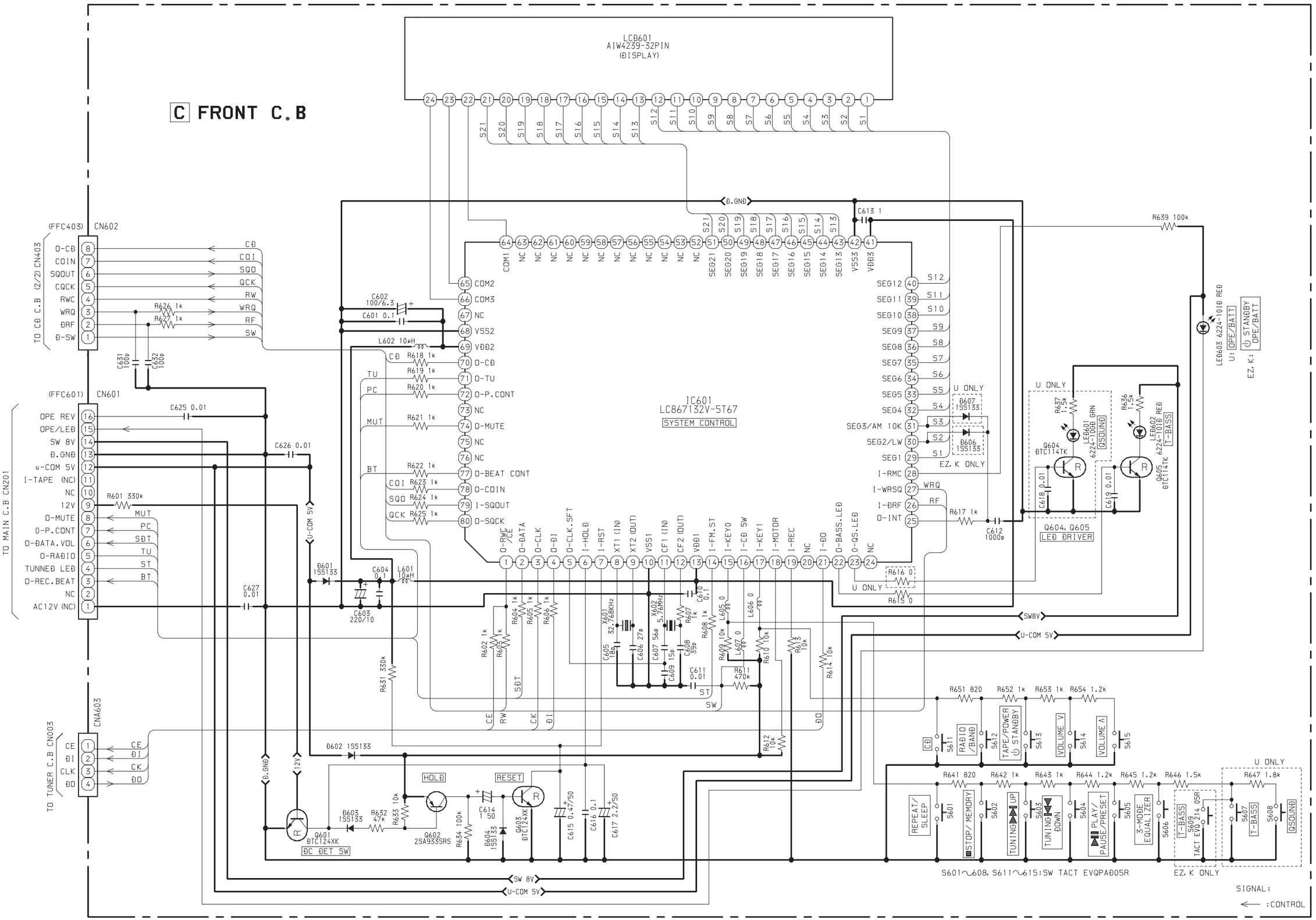

B CD C.B
SPEAKERS
7 OHMS
R
L
J201
CNA202
TO FRONT C.B
CN602
(FFC403)
SW205
CD DOOR SW
CNA205
TO BATT C.B
CNA901
TO CD MOTOR C.B
PIN3
CNA402
TO CD PICK UP ASSY CN1
(FFC401)
M1
TAPE
MOTOR
S1
TAPE
SW
CNA802
TAPE MECHANISM
ZZM-1 AR5NC
SW801
PB
REC
TAPE MECHANISM
ZZM-1 AR5NC
RPH
CNA801
EH
A MAIN C.B
(FFC601)
TO FRONT C.B
CN601
TO TUNER C.B
CN002

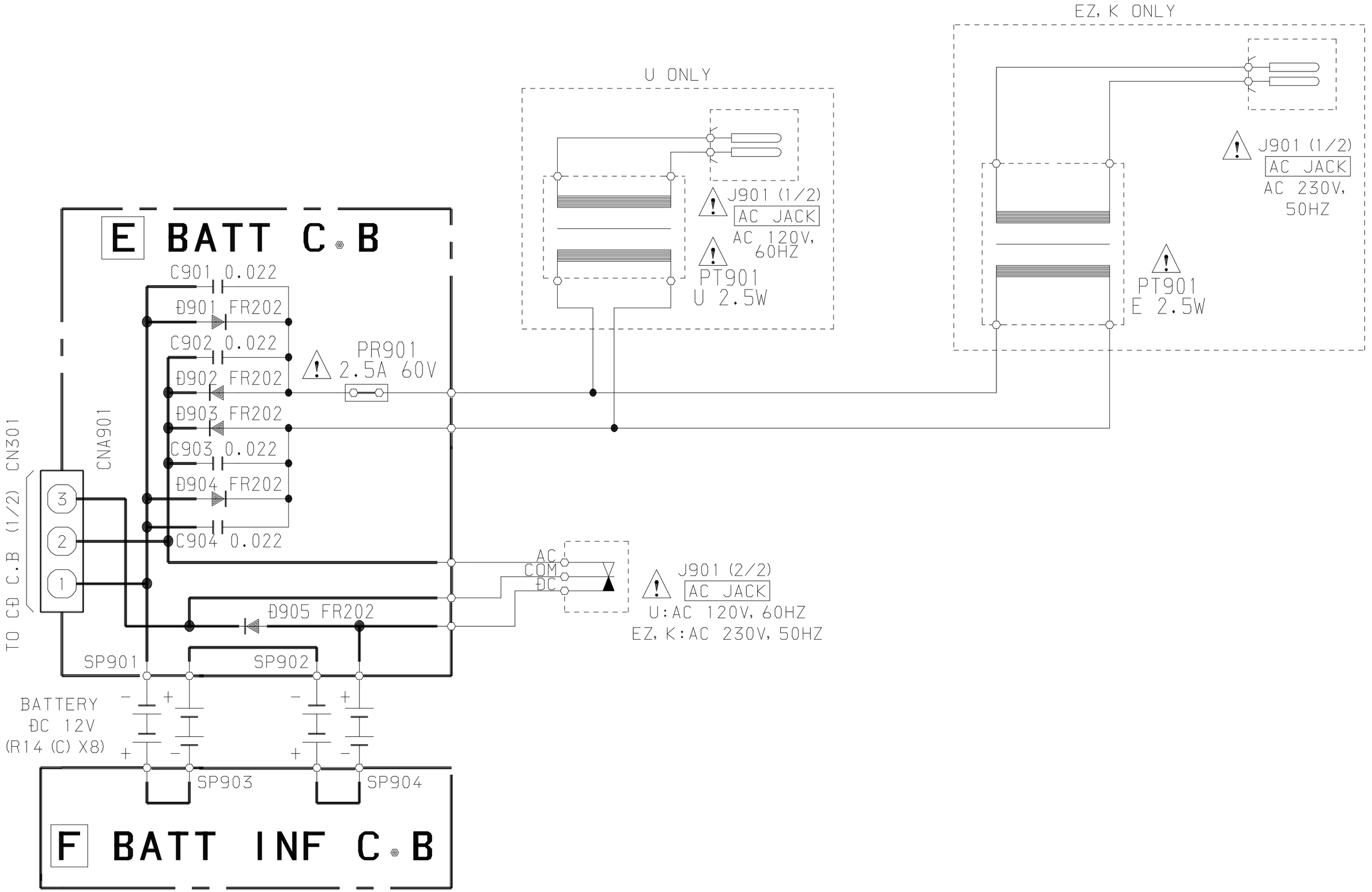
SCHEMATIC DIAGRAM – 1 (MAIN / CD : 1 / 2)



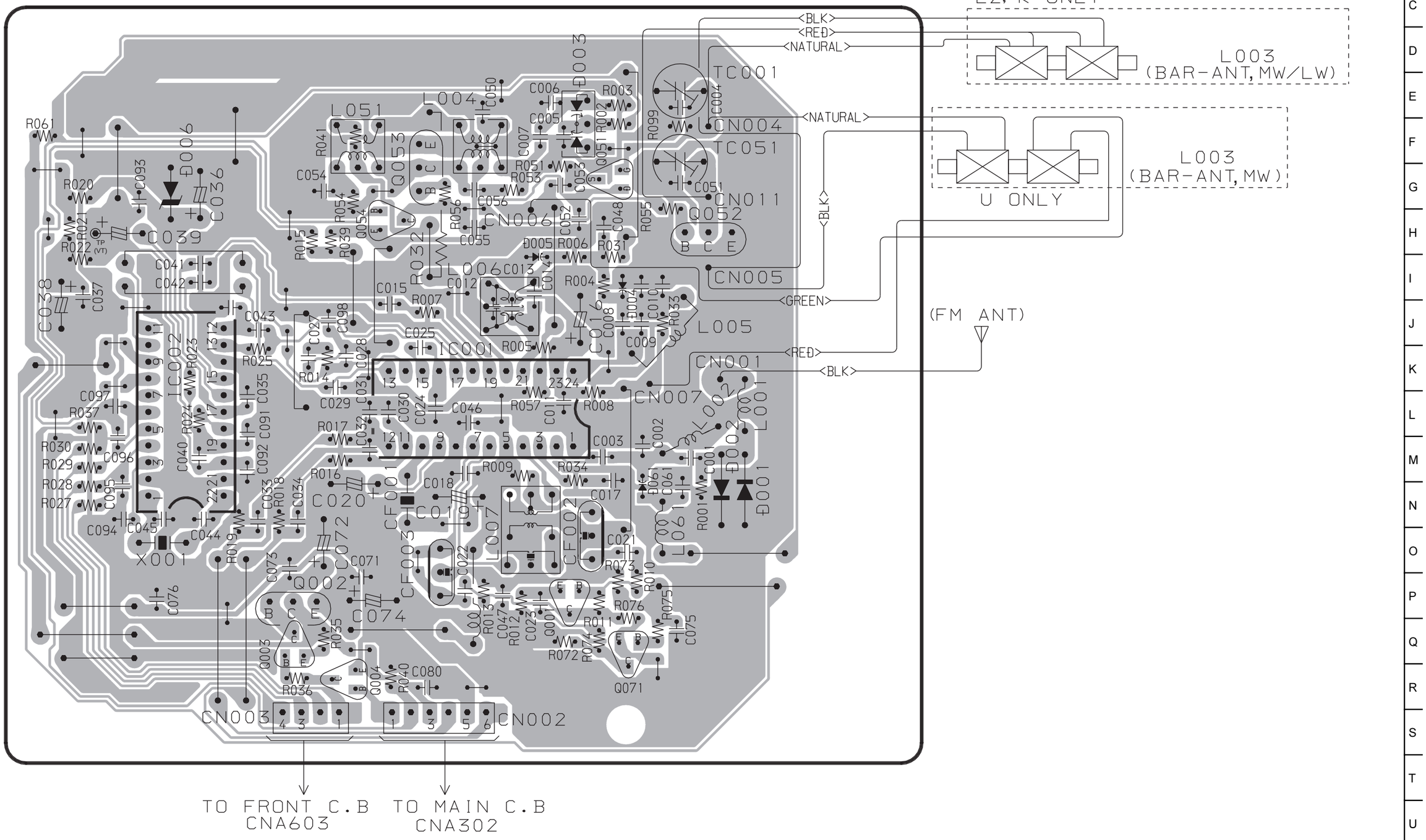

B CD C.B (2/2)
IC401 LA9241ML ASP
IC402 LC78622NE DSP
IC404 MM1469XH
Q401 2SA933RS APC
Q403 DTC114TKA TRACKING GAIN UP (CD RW PLAY)
Q406~408 ANALOG SW (CD←CD RW)
Q406 DTC114TKA
Q407 DTC114YKA
Q408 DTC114YKA
Q402 2SA1979QY REG
Q491 2SA1296GR +B SW.
Q492 DTC124XS +B SW. CONTROL
SFR430 100K H RH063MC FOCUS BIAS ADJUST
X401 VIB.CERT6.93MHz
EZ.K ONLY
U ONLY
SPINDLE
SLED
TRACKING
FOCUS
MOTOR COIL DRIVER
CD MECHANISM DA11T3C
OPTICAL PICK UP SF-P101NR
G CD MOTOR C.B
M1 SPINDLE MOTOR
M2 SLED MOTOR
SW1 INSIDE LIMIT SW
CN1 (FFC401)
CN401
CNA402
CN403 (FFC403)
CN205
CNA205
SW205 CB DOOR SW
TO FRONT C.B CN602
TO/FROM CD C.B (1/2) (1A7-6A)
CD R CH
CD L CH
A.GND
D.GND
MUTE (NC)
8V
5V
D-GND
VREF
RES 8V
SIGNAL:
:PB
:CONTROL

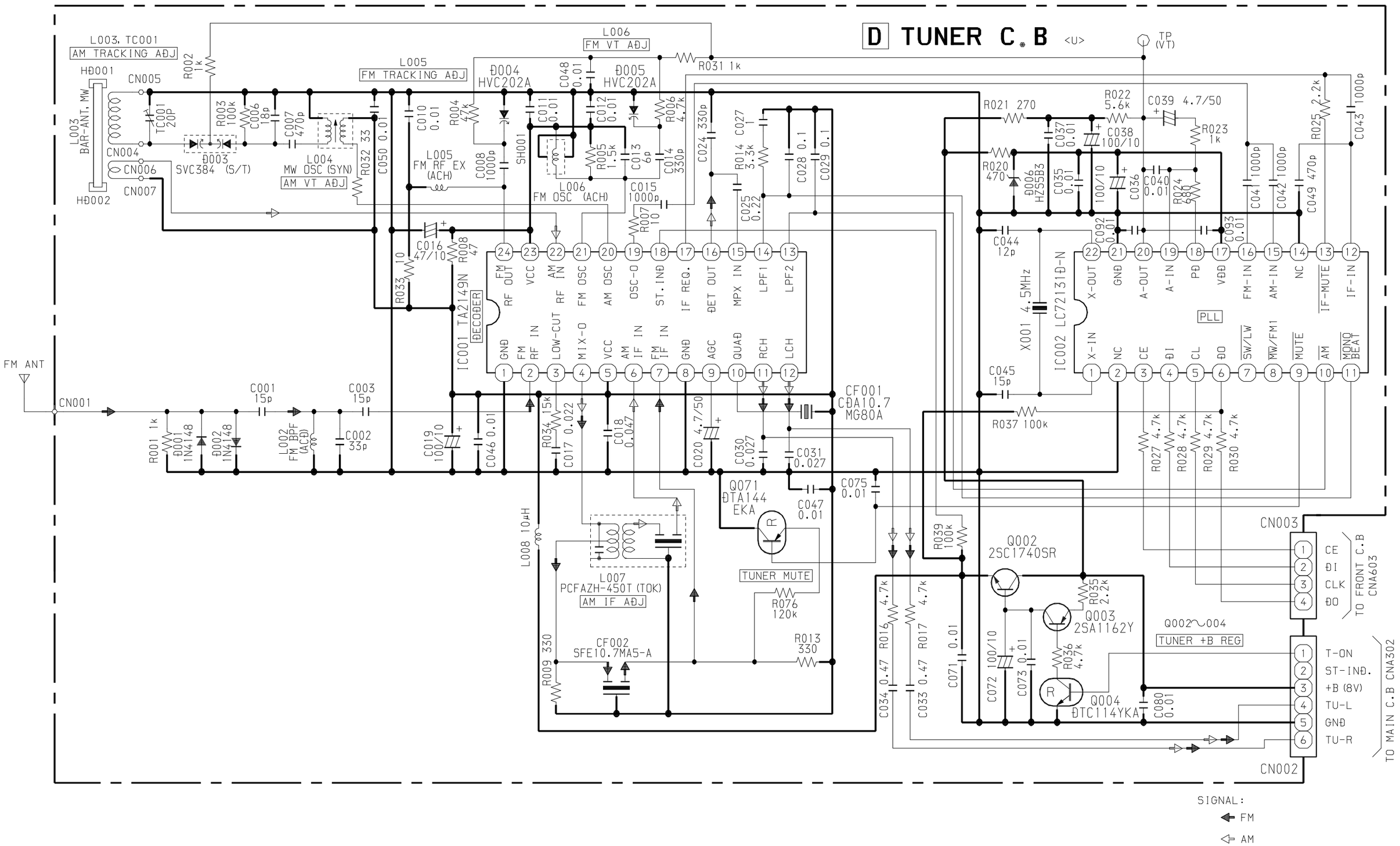

C FRONT C.B
U ONLY
LEĐ601
QSOUNĐ
LEĐ602
T-BASS
LCĐ601
(ĐISPLAY)
LEĐ603
U:OPE/BATT
EZ. K:⏻STANĐBY OPE/BATT
S615
VOLUME Λ
S614
VOLUME V
S611
CĐ
S612
RAĐIO/BANĐ
S613
TAPE/
POWER/
⏻STANĐBY
IC601
IC602
L601
L602
TO CĐ C.B
CN403
(FFC403)
CN602
S601
REPEAT/SLEEP
CNA603
TO TUNER C.B
CN003
TO MAIN C.B CN201
(FFC601)
CN601
S606
3-MOĐE
EQUALIZER
S602
■STOP/MEMORY
S605
⏯PLAY/PAUSE/
PRESET
TUNING
S603
⏭UP
S604
⏮ĐOWN
S607
T-BASS
U ONLY
S609
T-BASS
EZ. K ONLY
S608
QSOUNĐ
U ONLY
F BATT INF C.B
SP903
SP904
SP902
SP901
BATTERY ĐC12V
(R14(C) X8)
E BATT C.B
TO MAIN C.B CN301
CNA901
PR901
J901
AC JACK
AC 230V
50HZ
<EZ. K ONLY>
PT901
AC 120V
60HZ
<U ONLY>

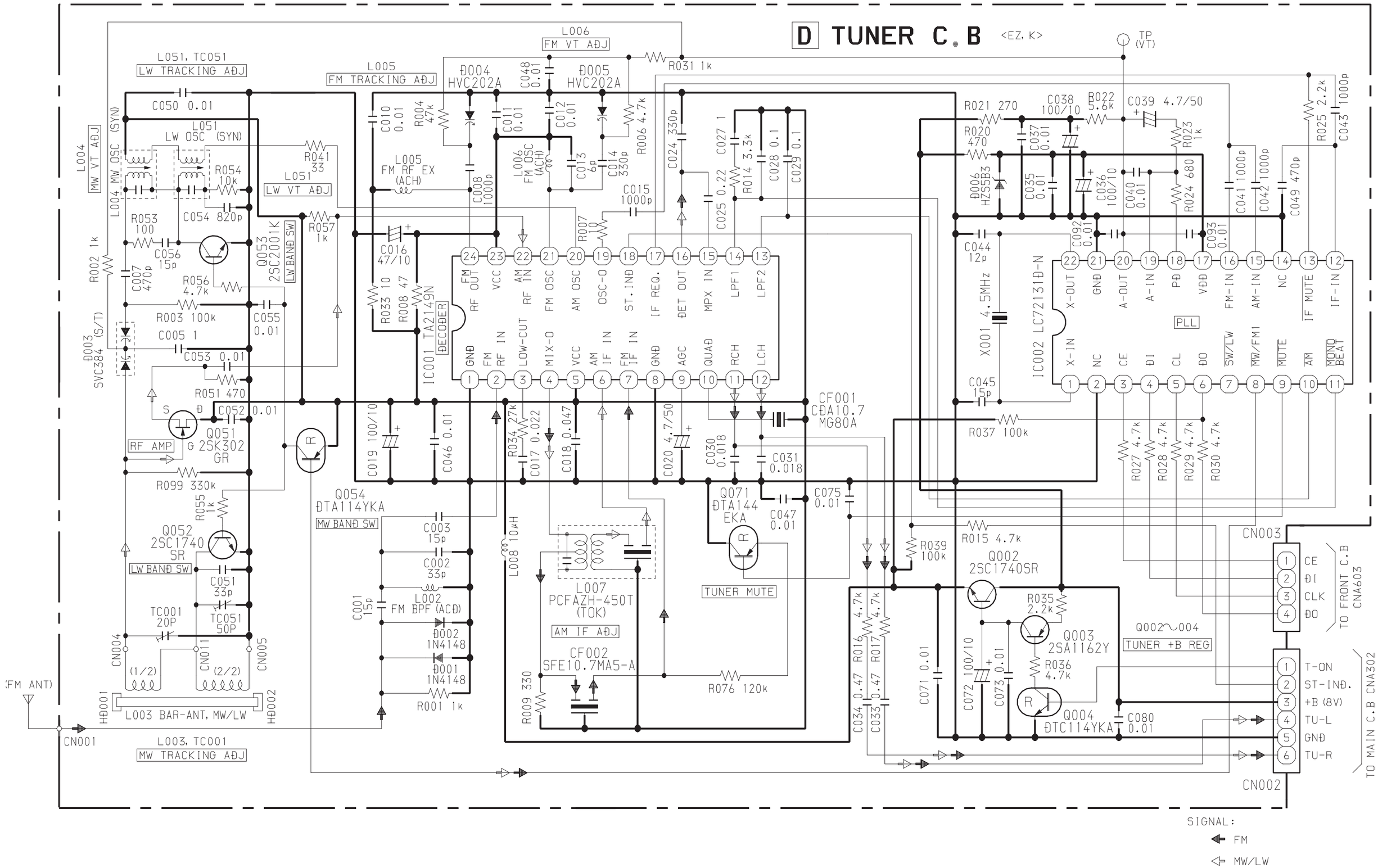

C FRONT C.B
LCD601
AIW4239-32PIN
(DISPLAY)
IC601
LC867132V-5T67
SYSTEM CONTROL
TO MAIN C.B CN201
TO CD C.B (2/2) CN403
TO TUNER C.B CN003
U ONLY
EZ. K ONLY
Q604. Q605
LED DRIVER
LED603 6224-101D RED
U: OPE/BATT
EZ. K: STANDBY OPE/BATT
S601~608. S611~615:SW TACT EVQPAD05R
SIGNAL:
:CONTROL


E BATT C.B
C901 0.022
Đ901 FR202
C902 0.022
Đ902 FR202
Đ903 FR202
C903 0.022
Đ904 FR202
C904 0.022
PR901
2.5A 60V
CNA901
CN301
TO CĐ C.B (1/2)
3
2
1
Đ905 FR202
SP901
SP902
SP903
SP904
BATTERY
ĐC 12V
(R14 (C) X8)
F BATT INF C.B
U ONLY
J901 (1/2)
AC JACK
AC 120V, 60HZ
PT901
U 2.5W
EZ, K ONLY
J901 (1/2)
AC JACK
AC 230V, 50HZ
PT901
E 2.5W
AC
COM
ĐC
J901 (2/2)
AC JACK
U:AC 120V, 60HZ
EZ, K:AC 230V, 50HZ

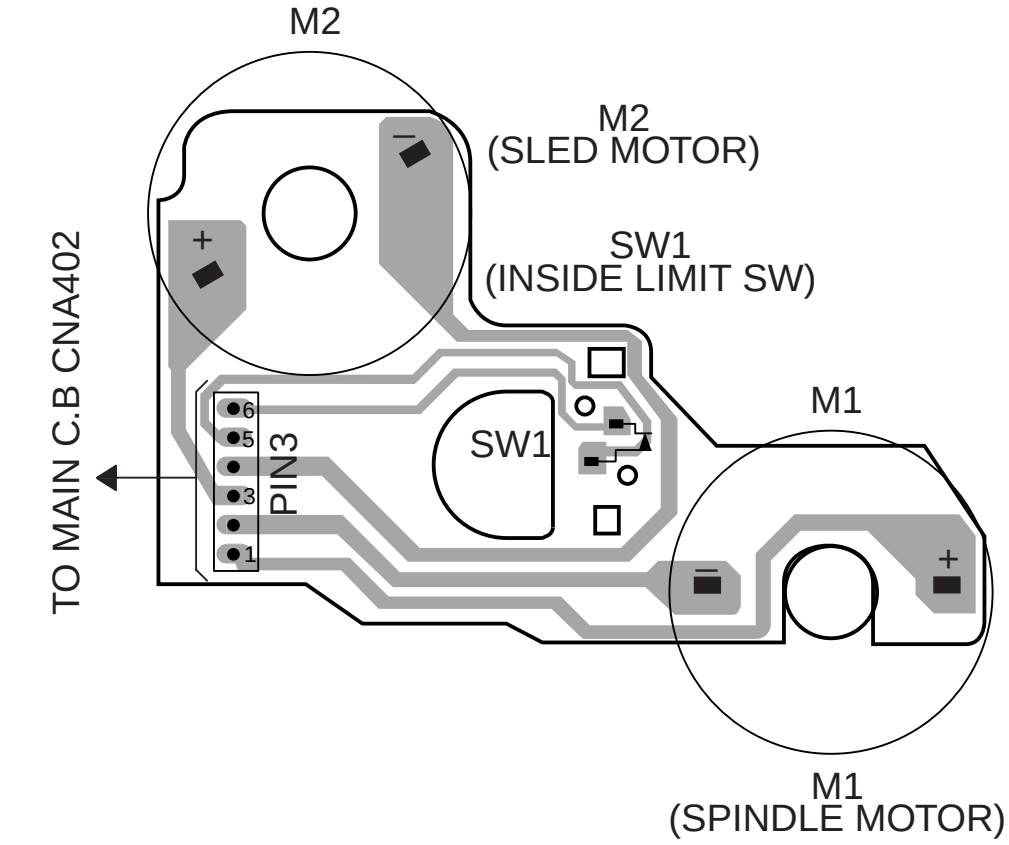
Đ TUNER C.B

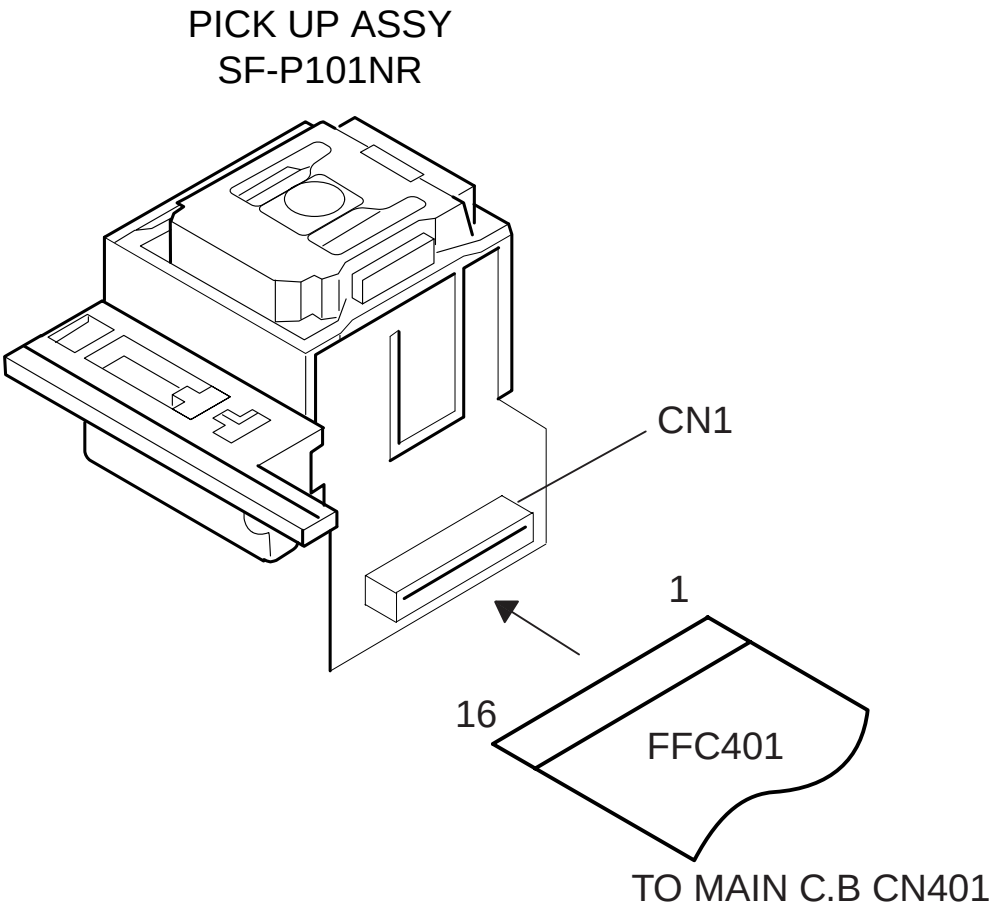

EZ, K ONLY
L003
(BAR-ANT, MW/LW)
U ONLY
L003
(BAR-ANT, MW)
(FM ANT)
<BLK>
<REĐ>
<NATURAL>
<GREEN>
TC001
TC051
CN004
CN011
CN005
CN001
CN007
CN003
CN002
TO FRONT C.B
CNA603
TO MAIN C.B
CNA302


D TUNER C.B <U>
TP (VT)
L003, TC001
AM TRACKING AÐJ
HÐ001
CN005
CN004
CN006
CN007
HÐ002
L003 BAR-ANT, MW
TC001 20P
R002 1k
R003 100k
C006 18p
C007 470p
ÐØ03 SVC384 (S/T)
L004 MW OSC (SYN)
AM VT AÐJ
R032 33
C050 0.01
L005 FM TRACKING AÐJ
C010 0.01
L005 FM RF EX (ACH)
C008 1000p
R004 47k
ÐØ04 HVC202A
SH001
C011 0.01
L006 FM VT AÐJ
R031 1k
C048 0.01
ÐØ05 HVC202A
C012 0.01
R005 1.5k
C013 6p
C014 330p
R006 4.7k
L006 FM OSC (ACH)
C015 1000p
R007 10
C024 330p
C025 0.22
R014 3.3k
C027 1
C028 0.1
C029 0.1
C016 47/10
R008 47
R033 10
IC001 TA2149N DECODER
FM OUT
VCC
AM IN
FM OSC
AM OSC
OSC-O
ST. INÐ
IF REQ.
ÐET OUT
MPX IN
LPF1
LPF2
GNÐ
FM RF IN
LOW-CUT
MIX-O
VCC
AM IF IN
FM IF IN
GNÐ
AGC
QUAÐ
RCH
LCH
CF001 CÐA10.7 MG80A
R021 270
R022 5.6k
C039 4.7/50
R023 1k
C037 0.01
C038 100/10
R020 470
ÐØ06 HZS5B3
C035 0.01
100/10
C036
C040 0.01
R024 680
C041 1000p
C042 1000p
C049 470p
R025 2.2k
C043 1000p
C092 0.01
C093 0.01
C044 12p
X001 4.5MHz
C045 15p
IC002 LC72131ÐN PLL
X-OUT
GNÐ
A-OUT
A-IN
PÐ
VÐÐ
FM-IN
AM-IN
NC
IF-MUTE
IF-IN
X-IN
NC
CE
ÐI
CL
ÐO
SW/LW
MW/FM1
MUTE
AM
MONO BEAT
R037 100k
R027 4.7k
R028 4.7k
R029 4.7k
R030 4.7k
FM ANT
CN001
R001 1k
ÐØ01 1N4148
ÐØ02 1N4148
C001 15p
L002 FM BPF (ACÐ)
C003 15p
C002 33p
C019 100/10
C046 0.01
R034 15k
C017 0.022
C018 0.047
C020 4.7/50
C030 0.027
C031 0.027
Q071 ÐTA144 EKA
C047 0.01
C075 0.01
L008 10μH
L007 PCFAZH-450T (TOK) AM IF AÐJ
CF002 SFE10.7MA5-A
TUNER MUTE
R076 120k
R009 330
R013 330
R039 100k
Q002 2SC1740SR
R035 2.2k
Q003 2SA1162Y
Q002~004
TUNER +B REG
R036 4.7k
Q004 ÐTC114YKA
C080 0.01
R016 4.7k
R017 4.7k
C034 0.47
C033 0.47
C071 0.01
C072 100/10
C073 0.01
CN003
CE
ÐI
CLK
ÐO
TO FRONT C.B CNA603
T-ON
ST-INÐ.
+B (8V)
TU-L
GNÐ
TU-R
CN002
TO MAIN C.B CNA302
SIGNAL:
FM
AM


D TUNER C.B <EZ, K>
TP (VT)
L006 FM VT ADJ
L051, TC051 LW TRACKING ADJ
L005 FM TRACKING ADJ
L004 MW VT ADJ
L004 MW OSC (SYN)
L051 LW OSC (SYN)
L051 LW VT ADJ
L005 FM RF EX (ACH)
L006 FM OSC (ACH)
Đ004 HVC202A
Đ005 HVC202A
R031 1k
C048 0.01
C050 0.01
C010 0.01
R004 47k
C011 0.01
C012 0.01
R006 4.7k
C013 6p
C014 330p
C024 330p
C027 1
R014 3.3k
C028 0.1
C029 0.1
C025 0.22
C015 1000p
C008 1000p
R007 10
R041 33
R054 10k
C054 820p
R053 100
C056 15p
R057 1k
C016 47/10
R033 10
R008 47
IC001 TA2149N
ĐECOĐER
FM OUT
RF OUT
VCC
AM IN
RF IN
FM OSC
AM OSC
OSC-O
ST. INĐ
IF REQ.
ĐET OUT
MPX IN
LPF1
LPF2
GNĐ
FM RF IN
LOW-CUT
MIX-O
VCC
AM IF IN
FM IF IN
GNĐ
AGC
QUAĐ
RCH
LCH
R002 1k
C007 470p
R003 100k
C005 1
C055 0.01
C053 0.01
R051 470
Đ003 SVC384 (S/T)
S
Đ
C052 0.01
Q051 G 2SK302 GR
RF AMP
R099 330k
R055 1k
Q052 2SC1740 SR
LW BANĐ SW
C051 33p
TC001 20P
TC051 50P
CN004
CN011
CN005
(1/2)
(2/2)
HĐ001
HĐ002
L003 BAR-ANT, MW/LW
(FM ANT)
CN001
L003, TC001
MW TRACKING ADJ
C019 100/10
C046 0.01
R034 27k
C017 0.022
C018 0.047
C020 4.7/50
C030 0.018
C031 0.018
CF001 CĐA10.7 MG80A
C075 0.01
Q071 ĐTA144 EKA
C047 0.01
TUNER MUTE
Q054 ĐTA114YKA
MW BANĐ SW
C003 15p
C002 33p
L002 FM BPF (ACĐ)
Đ002 1N4148
Đ001 1N4148
R001 1k
C001 15p
L008 10μH
L007 PCFAZH-450T (TOK)
AM IF ADJ
CF002 SFE10.7MA5-A
R009 330
R076 120k
R021 270
R020 470
Đ006 HZS5B3
C038 100/10
R022 5.6k
C039 4.7/50
C037 0.01
C035 0.01
C036 100/10
C040 0.01
R023 1k
R024 680
C041 1000p
C042 1000p
C049 470p
R025 2.2k
C043 1000p
C092 0.01
C093 0.01
C044 12p
X001 4.5MHz
C045 15p
R037 100k
IC002 LC72131Đ-N
PLL
X-OUT
GNĐ
A-OUT
A-IN
PĐ
VĐĐ
FM-IN
AM-IN
NC
IF MUTE
IF-IN
X-IN
NC
CE
ĐI
CL
ĐO
SW/LW
MW/FM1
MUTE
AM
MONO BEAT
R027 4.7k
R028 4.7k
R029 4.7k
R030 4.7k
R039 100k
R015 4.7k
Q002 2SC1740SR
C034 0.47
R016 4.7k
C033 0.47
R017 4.7k
C071 0.01
C072 100/10
C073 0.01
R035 2.2k
Q003 2SA1162Y
R036 4.7k
Q004 ĐTC114YKA
C080 0.01
Q002~004
TUNER +B REG
CN003
CE
ĐI
CLK
ĐO
TO FRONT C.B CNA603
CN002
T-ON
ST-INĐ.
+B (8V)
TU-L
GNĐ
TU-R
TO MAIN C.B CNA302
SIGNAL:
FM
MW/LW

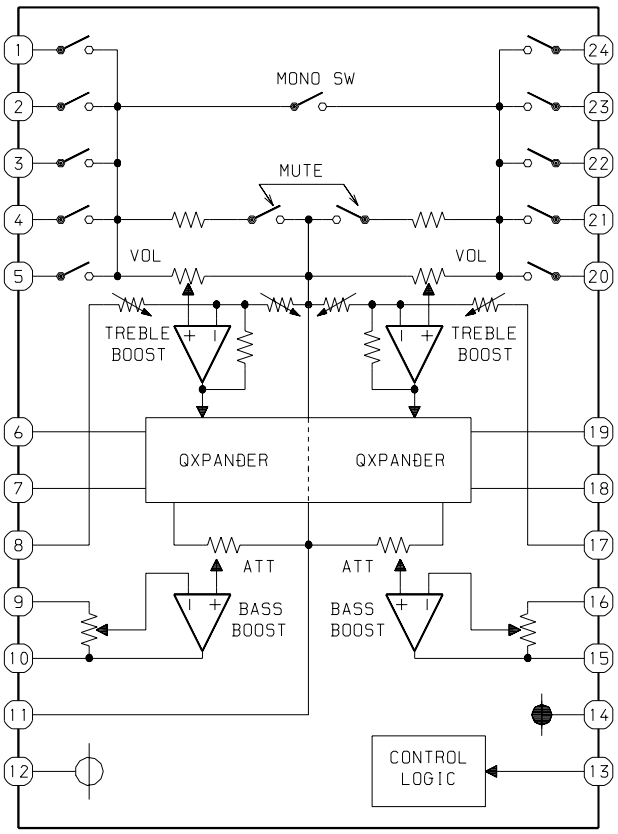
G CD MOTOR C.B


M2
M2
(SLED MOTOR)
SW1
(INSIDE LIMIT SW)
TO MAIN C.B CNA402
PIN3
6
5
3
1
SW1
M1
M1
(SPINDLE MOTOR)

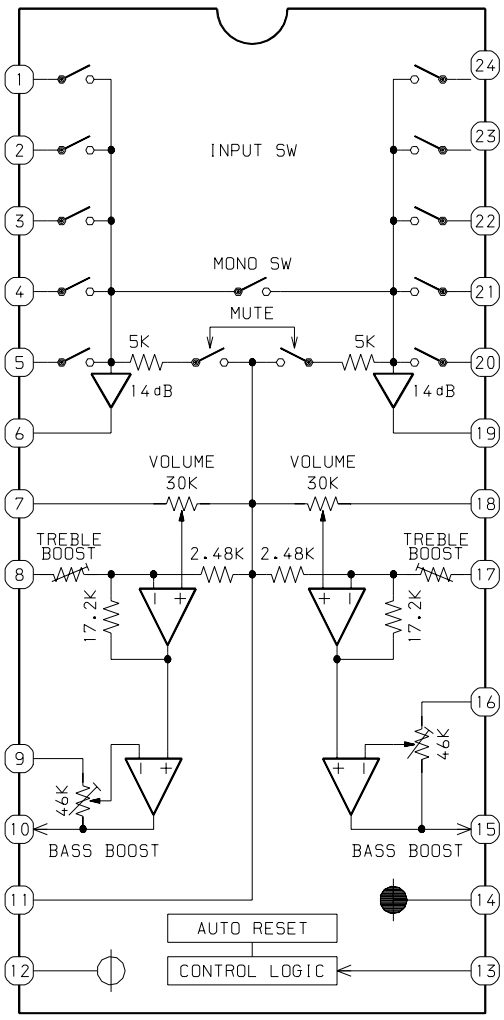

PICK UP ASSY
SF-P101NR
CN1
1
16
FFC401
TO MAIN C.B CN401

IC BLOCK DIAGRAM

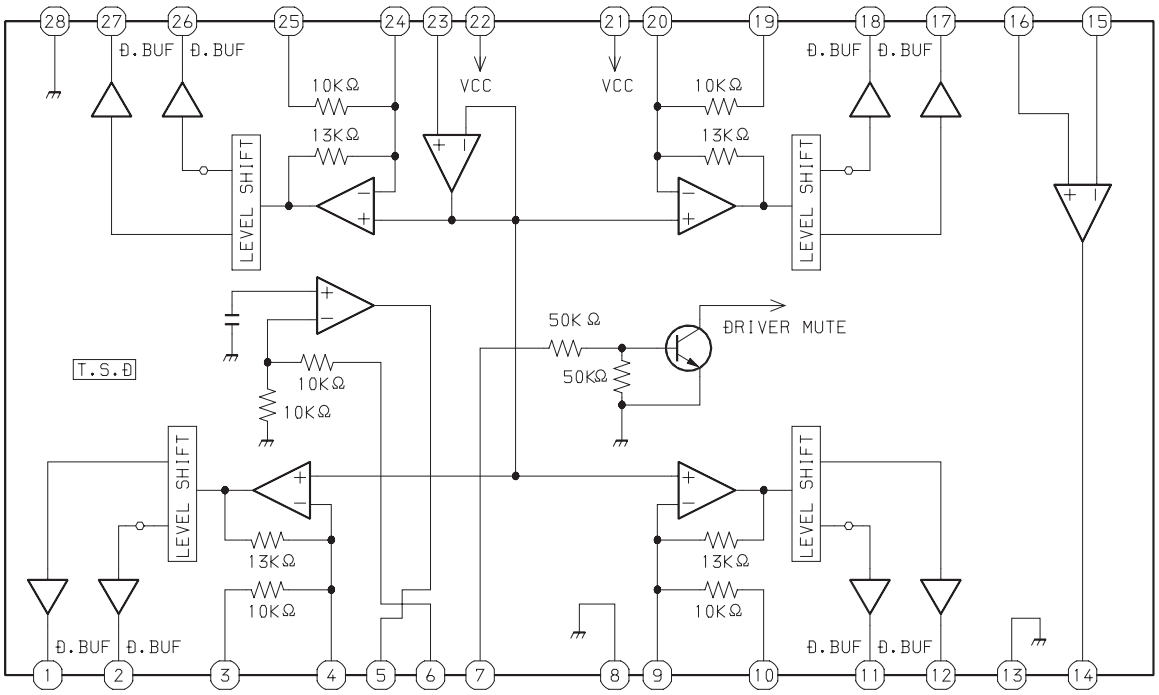
IC, M61509FP



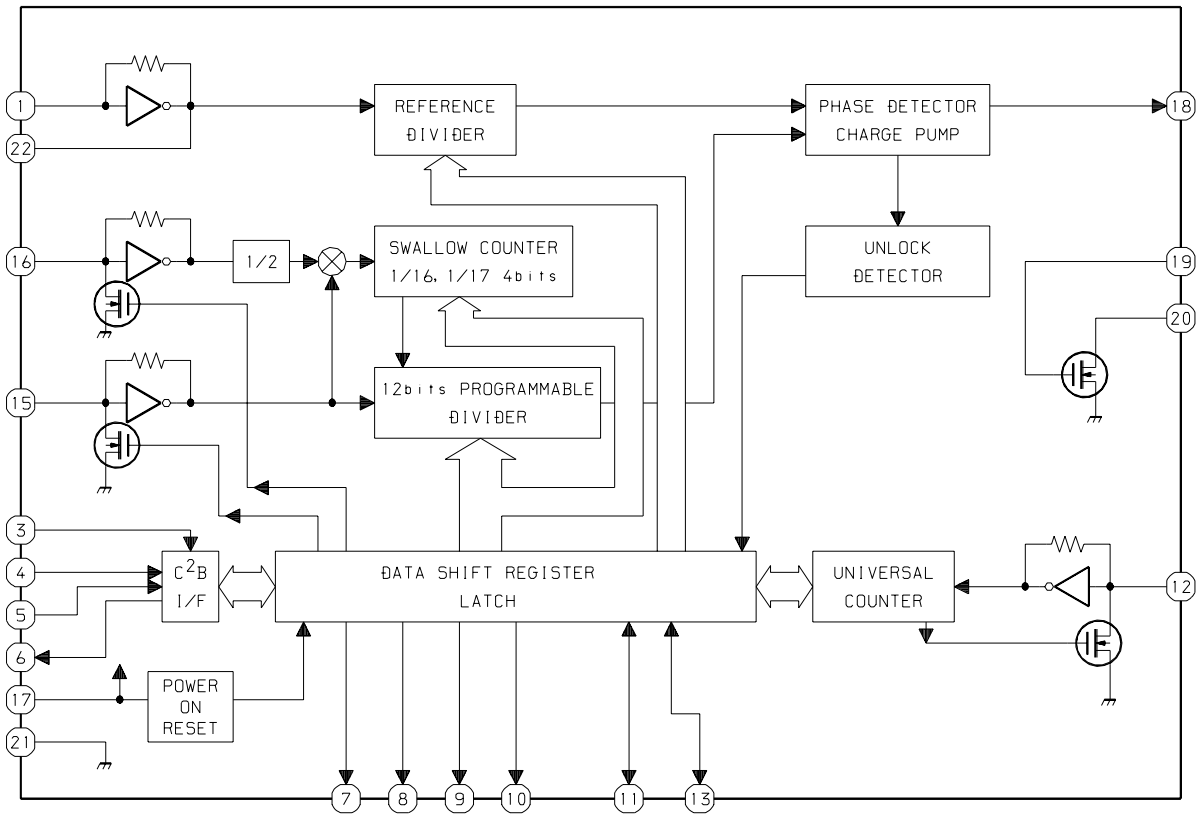
IC, M62495AFP



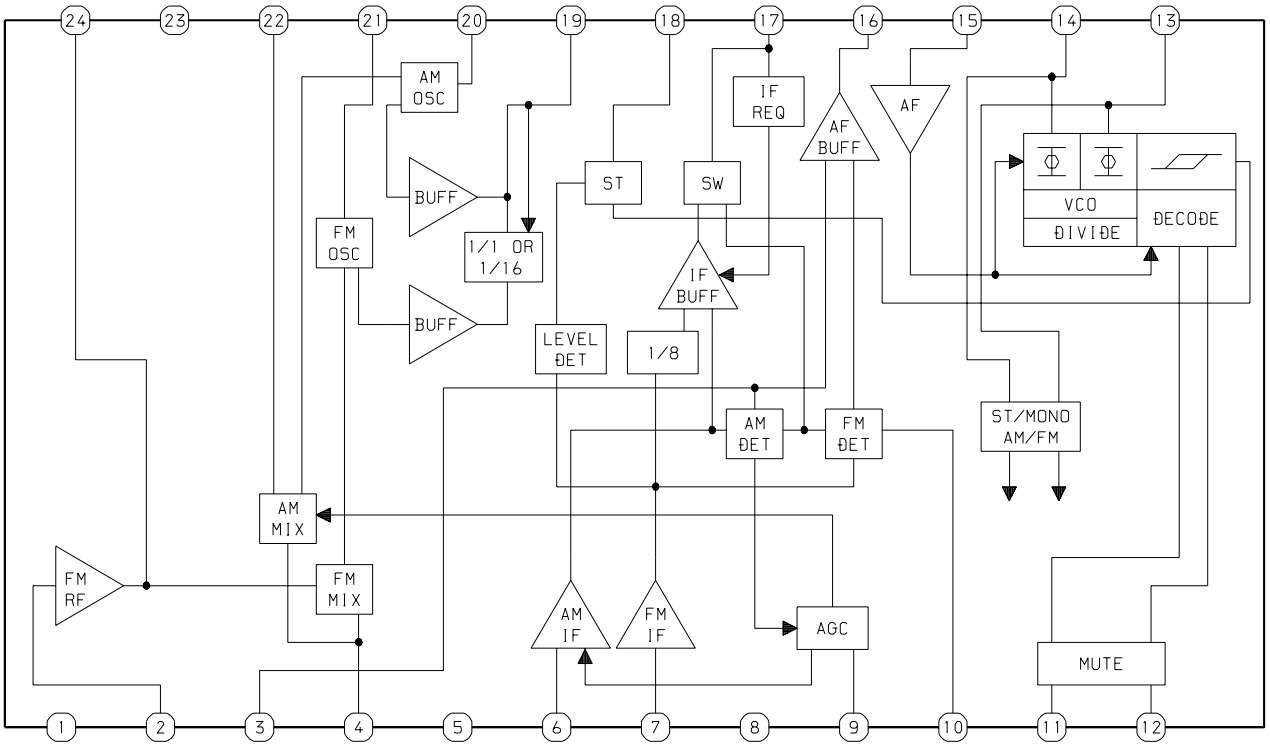
IC, MM1469XH



IC, LC72131Đ-N



IC, TA2149N



IC DESCRIPTION

IC, LC78622NE

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input.
2	TAI	I	Test input. A pull-down resistor is incorporated. (For PLL) (Connected to 0V)
3	PDO	O	Phase comparison output to control the external VCO. (For PLL)
4	VVSS	–	Ground of the built-in VCO. Normally, 0V. (For PLL)
5	ISET	I	For the connection of a resistor which adjusts the PDO output current. (For PLL)
6	VVDD	–	Power supply of the built-in VCO. (For PLL)
7	FR	I	Adjusts the VCO frequency range. (For PLL)
8	VSS	–	Ground of digital circuits. Normally, 0V.
9	EFMO	O	Slice level control EFM signal output.
10	EFMIN	I	Slice level control EFM signal input.
11	T2	I	Test input. A pull-down resistor is incorporated. (Connected to 0V)
12	CLV+	O	Disc motor control tri-state output.
13	CLV-		
14	V/$\overline{P}$	O	Output to monitor the automatic switching between the rough servo control and phase servo control. "H": Rough servo, "L": Phase servo.
15	HFL	I	Track detection signal input. Schmitt trigger input.
16	TES	I	Track error signal input. Schmitt trigger input.
17	TOFF	O	Tracking OFF output.
18	TGL	O	Tracking gain switching output. "L" raises the gain.
19	JP+	O	Track jump control tri-state output.
20	JP-		
21	PCK	O	Monitors clock signal for EFM data playback. 4.3218MHz when the phase is locked. (Not used)
22	FSEQ	O	Sync signal detection output. Goes "H" when the sync signal detected from the EFM signal matches the sync signal generated internally. (Not used)
23	VDD	–	Power supply of digital circuits.
24	SL+	O	Serial data command sled signal output terminal from microprocessor.
25	SL–		
26	NC	–	Not connected.
27	PU IN	I	CD pickup inside limit switch.
28	RW	O	Read / Write signal.
29	EMPH	O	De-emphasis monitor. "H": when playing a de-emphasis disc. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Output a digital OUT signal. (EIAJ format) (Not used)
32	T3	I	Test input. (Connected to 0V).
33	T4		
34	NC	–	Not connected.
35	MUTEL	O	Left channel 1-bit D/A converter muting output. (Not used)

Pin No.	Pin Name	I/O	Description
36	LVDD	–	Left channel 1-bit D/A converter power supply.
37	LCHO	O	Left channel 1-bit D/A converter output.
38	LVSS	–	Left channel 1-bit D/A converter ground. Normally, 0V.
39	RVSS	–	Right channel 1-bit D/A converter ground. Normally, 0V.
40	RCHO	O	Right channel 1-bit D/A converter output.
41	RVDD	–	Right channel 1-bit D/A converter power supply.
42	MUTER	O	Right channel 1-bit D/A converter muting output. (Not used)
43	XVDD	–	Power supply of crystal oscillator.
44	XOUT	O	For the connection of a 16.93MHz crystal oscillator.
45	XIN	I	
46	XVSS	–	Ground of crystal oscillator. Normally, 0V.
47	SBSY	O	Subcode block sync signal output. (Not used)
48	EFLG	O	C1, C2, single, duplex correction monitor. (Not used)
49	PW	O	Output of subcodes P, Q, R, S, T, U and W. (Not used)
50	SFSY	O	Subcode frame sync signal output. Falls when the subcode is set to the standby state. (Not used)
51	SBCK	I	Subcode read-out clock input. Schmitt trigger input. ("L" is applied when not used.) (Connected to 0V)
52	FSX	O	7.35kHz sync signal output obtained by dividing the oscillator frequency. (Not used)
53	WRQ	O	Subcode Q standby output.
54	RWC	I	Read/write control input. Schmitt trigger input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input from the microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input retrieval clock or subcode retrieval clock input from SQOUT. Schmitt trigger input.
58	RES	I	LC78622NE reset input.
59	T11	O	Test output. Set to open (normally, "L" output.) (Not used)
60	16M	O	16.9344MHz output. (Not used)
61	4.2M	O	4.2336MHz output.
62	T5	I	Test input. A pull-down resistor is incorporated. (Connected to 0V)
63	$\overline{\text{CS}}$	I	Chip select input. (Connected to 0V)
64	T1	I	Test input with no pull-down resistor. (Connected to 0V)

IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	O	For the connection of the pickup photodiode. Addition to the FIN1 pin creates an RF signal and subtraction from it create an EF signal.
2	FIN1	O	For the connection of the pickup photodiode.
3	E	O	For the connection of the pickup photodiode. Subtraction from the F pin creates a TE signal.
4	F	O	For the connection of the pickup photodiode.
5	TB	I	Inputs the DC components in the TE signal.
6	TE-	O	For the connection of a resistor which sets the gain of the TE signal between this pin and the TE pin.
7	TE	O	TE signal output.
8	TESI	I	TES (track error sense) comparator input. The TE signal is passed through a BPF.
9	SCI	I	Shock detection input.
10	TH	I	Sets the time constant for the tracking gain.
11	TA	O	TA amp output.
12	TD-	I	Composes the tracking phase compensation constant between the TD and VR pins.
13	TD	O	Sets the tracking phase compensation.
14	JP	I	Sets the amplitude of the tracking jump signal (kick pulses).
15	TO	O	Tracking control signal output.
16	FD	O	Focusing control signal output.
17	FD-	I	Composes the focusing phase compensation constant between the FD and FA pins.
18	FA	O	Composes the focusing phase compensation constant between the FD- and FA- pins.
19	FA-	I	Composes the focusing phase compensation constant between the FA and FE pins.
20	FE	O	FE signal output.
21	FE-	I	For the connection of a resistor whichs sets the gain of the FE signal between this pin and the TE pin.
22	A-GND	O	Ground of analog signals.
23	SP	O	Single-ended output of the signals input to the CV+ and CV- pins.
24	SPI	I	Spindle amp input.
25	SPG	I	For the connection of a resistor which sets the gain in the spindle 12cm mode. (Not used)
	26	SP-	I For the connection of the spindle phase compensation constant with the SPD pin.
	27	SPD	O Spindle control signal output.
28	SLEQ	I	For the connection of sled phase compensation constant.
29	SLD	O	Sled control signal output.
30	SL-	I	Sled feed signal input from the microprocessor.
31	SL+		
32	JP-	I	Tracking signal input from the DSP.
33	JP+		
34	TGL	I	Tracking gain control signal input from the DSP. Low gain when TGL is "H".
35	TOFF	I	Tracking off control signal input from the DSP. Off when TOFF is "H".
36	TES	O	Outputs the TES signal to the DSP.

Pin No.	Pin Name	I/O	Description
37	HFL	O	The HFL (high frequency level) signal is used to judge whether the main beam is positioned on the pit or on the mirror.
38	SLOF	I	Sled servo off control input.
39	CV-	I	CLV error signal input from the DSP.
40	CV+		
41	RFSM	O	RF output.
42	RFS-	O	Sets the RF gain and the EFM signal's 3T compensation constant together with the RFSM pin.
43	SLC	O	The SLC (slice level control) signal is output to control the DSP's data slice level of the RF waveform.
44	SLI	I	Input to control the DSP's data slice level.
45	DGND	–	Ground of digital signals.
46	FSC	O	Output for the focus search smoothing capacitor.
47	TBC	I	The TBC (tracking balance control) signal sets the EF balance variation range.
48	NC	–	Not connected.
49	DEF	O	Disc defect detection output.
50	CLK	I	Reference clock input. 4.23MHz is input from the DSP.
51	CL	I	Microprocessor command clock input.
52	DAT	I	Microprocessor command data input.
53	CE	I	Microprocessor chip enable input.
54	DRF	O	DRF (detect RF) is an output to detect the RF level.
55	FSS	I	The FSS (focus search select) signal switches the focus search modes (+/-search / +search with respect to the reference voltage). (Not used)
56	VCC2	–	VCC of servo and digital circuits.
57	REFI	–	For the connection of bypass capacitor for the reference voltage.
58	VR	O	Reference voltage output.
59	LF2	I	Sets the time constant for disc defect detection.
60	PHI	I	For the connection of a capacitor to hold the RF signal peak.
61	BHI	I	For the connection of a capacitor to hold the RF signal bottom.
62	LDD	O	APC circuit output.
63	LDS	I	APC circuit input.
64	VCC1	–	VCC of RF signal circuits.

IC, LC867132V-5T67

Pin No.	Pin Name	I/O	Description
1	O-RWC/CE	O	CD read/write control output and TU CE.
2	O-DATA	O	Data output to sound processor IC M62495AFP<EZ,K>, IC M61509FP<U>.
3	O-CLK	O	Clock output to sound processor IC M62495AFP<EZ,K>, IC M61509FP<U>.
4	O-DI	O	Data input to tuner PLL.
5	O-CLK.SFT	O	Clock shift output for microprocessor.
6	I-HOLD	I	Hold status detection.
7	I-RST	I	Microcomputer reset.
8	XT1 (IN)	I	Connected to an external 32.768kHz crystal oscillator.
9	XT2 (OUT)	O	Connected to an external 32.768kHz crystal oscillator.
10	VSS1	–	GND.
11	CF1 (IN)	I	Connected to an external 5.76MHz ceramic filter.
12	CF2 (OUT)	O	Connected to an external 5.76MHz ceramic filter.
13	VDD1	–	Microprocessor power supply (+5V).
14	I-FM.ST	I	FM STEREO status input.
15	I-KEY0	I	KEY AD input.
16	I-CD SW	I	CD door switch status detection input.
17	I-KEY1	I	KEY AD input.
18	I-MOTOR	I	DECK MECHA MOTOR status input.
19	I-REC	I	REC status input. (Connected to GND through a resistor).
20	NC	–	Not connected.
21	I-DO	I	Data input from tuner PLL.
22	O-BASS.LED	O	BASS LED ON/OFF control output. (Not used)
23	O-QS.LED	O	Q-Sound LED ON/OFF control output.
24	NC	–	Not connected.
25	O-INT	O	INT DIODE MATRIX detection output.
26	I-DRF	I	CD RF level detection input.
27	I-WRSQ	I	CD sub-code Q standby input.
28	I-RMC	I	Remote control input.
29	SEG1	O	LCD segment output.
30	SEG2/LW	O	LCD segment output / Intial settings output (LW) <EZ,K only>.
31	SEG3/AM 10K	O	LCD segment output / Intial settings output (AM 10K) <U only>.
32 ~ 40	SEG4 ~ SEG12	O	LCD segment output.
41	VDD3	–	Power supply for microcomputer (+5V).
42	VSS3	–	GND.
43 ~ 51	SEG13 ~ SEG21	O	LCD segment output.
52 ~ 63	NC	–	Not connected.
64 ~ 66	COM1 ~ COM3	O	LCD common output.
67	NC	–	Not connected.
68	VSS2	–	GND.
69	VDD2	–	Power supply for microcomputer (+5V).
70	O-CD	O	CD power control output.

Pin No.	Pin Name	I/O	Description
71	O-TU	O	TUNER power control output.
72	O-P.CONT	O	Power supply control output.
73	NC	–	Not connected.
74	O-MUTE	O	Main mute output.
75, 76	NC	–	Not connected.
77	O-BEAT CONT	O	BEAT switch over output.
78	O-COIN	O	CD command output.
79	I-SQOUT	I	CD sub-code Q input.
80	O-SQCK	O	CLK for CD commands/sub-codes.

VOLTAGE CHART

IC001, TA2149N

PIN NO.	FM	AM
1	0	0
2	0.79	0
3	0	1.01
4	4.65	4.79
5	4.84	4.83
6	4.3	4.16
7	4.84	4.83
8	0	0
9	0.21	0.18
10	4.06	4.34
11	1.19	1.19
12	1.21	1.22
13	3.93	0
14	4.16	0.02
15	0.7	0.7
16	0.94	1.09
17	0.9	1.3
18	4.79	4.74
19	3.1	3.22
20	4.84	4.83
21	4.64	4.76
22	4.84	4.83
23	4.64	4.76
24	4.83	4.83

IC002, LC72131D-N

PIN NO.	FM	AM
1	2.4	2.4
2	0	0
3	0	0
4	0	0
5	0	0
6	4.8	4.8
7	0	0
8	1.3	1.3
9	4.7	0
10	4.0	0
11	4.8	0
12	0	0
13	0.9	0.9
14	0	0
15	0	0
16	2.4	2.4
17	4.8	4.8
18	0.8	0.8
19	0.8	0.8
20	5	5
21	0	0
22	2.4	2.4

IC202, TA8227P

PIN NO.	ACTIVE	STATIC
1	12.31	11.5
2	6.57	6.1
3	12	1.5
4	0	0
5	0.56	0.56
6,7	0	0
8	0.56	0.56
9	6.65	6.41
10	12	1.42
11	6.46	6.2
12	13.1	12.5

IC203, M61509FP / M62495AFP

PIN NO.	CD	TAPE	TUNER
1	2.54	2.55	2.56
2,3	2.55	2.55	2.56
4	0.7	0.8	2.56
5	2.54	2.55	2.57
6	2.56	2.56	2.57
7	2.55	2.55	2.57
8	2.55	2.56	2.57
9	2.55	2.55	2.56
10	2.55	2.55	2.57
11	2.56	2.56	2.57
12	5.08	5.09	5.11
13	2.82	2.83	2.83
14	0	0	0
15,16	2.55	2.55	2.56
17	2.55	2.56	2.57
18	2.55	2.55	2.56
19	2.57	2.57	2.58
20	2.54	2.55	2.57
21	0.7	0.58	0.69
22	2.54	2.06	2.56
23	2.55	2.56	2.56
24	2.54	2.55	2.56

IC401, LA9241ML

PIN NO.	ACTIVE	STATIC
1	2.67	2.53
2	2.65	2.53
3	2.67	2.53
4	2.67	2.56
5	2.67	2.53
6	2.66	2.55
7,8	2.67	2.55
9	2.65	2.54
10	2.66	2.52
11	2.67	2.55
12	2.7	2.54
13	2.67	2.55
14	2.7	2.54
15	2.72	2.54
16	2.69	2.54
17	2.67	2.55
18	2.69	2.55
19	2.73	2.54
20	2.69	2.54
21	0	2.54
22	2.67	0
23	2.67	2.53
24	2.65	2.54
25	2.69	2.56
26	2.75	2.56
27	2.75	2.5
28	2.68	2.55
29	2.75	2.55
30	2.45	2.33
31	2.45	2.34
32,33	0	0
34	5.22	5.01
35	0	5.01
36	1.4	0.04
37	0	0.01
38	0	5
39	0	0
40	0.25	0
41	2.45	1.61
42	2.54	2.45
43	2.54	2.41
44	2.63	2.53
45	0	0
46	2.64	2.54
47	2.65	2.55
48,49	0	0
50	2.54	2.44
51	4.77	4.71
52	4.86	4.71
53	0	0.07
54	5.11	0.03
55	0.16	0.14
56	5.2	5.01
57	2.64	2.54
58	2.64	2.56
59	2.59	0.98
60	2.57	0.99
61	2.3	2.24
62	3.86	4.35
63	0.19	0
64	5.18	5.02

IC402, LC78622NE

PIN NO.	ACTIVE	STATIC
1	0	0
2	0	0
3	1.8	0.01
4	0	0
5	2.1	1.85
6	5.6	4.98
7	0.4	0.07
8	0	0
9	2.8	2.52
10	2.7	2.41
11	0	0
12	0.3	0
13	0	0
14	0	5
15	0	0.01
16	1.5	0.04
17	0	5.01
18	5.6	5.01
19,20	0	0
21	2.7	2.48
22	5.6	0
23	5.6	5.02
24,25	0	0
26	0	5
27	5.6	5
28,29	0	0
30	0	4.95
31	2.8	2.48
32~34	0	0
35	0	5.02
36	5.3	4.77
37	2.15	1.94
38,39	0	0
40	2.15	1.95
41	5.3	4.77
42	0	5
43	5.5	5.02
44	2.3	2.08
45	2.3	2.06
46	2.3	0
47	0.1	0.08
48	0	2.27
49	0.1	0
50	2.77	2.5
51	0	0
52	2.77	2.5
53	0.9	0
54	0	0.07
55	0	0
56	5.16	4.71
57	5	4.71
58	5.5	5
59	0	0
60	2.25	2.02
61	2.66	2.41
62~64	0	0

IC404, MM1469XH

PIN NO.	ACTIVE	STATIC
1	4.2	3.61
2	4.2	3.62
3,4	2.95	2.54
5	8.2	7.24
6,7	5.8	5.02
8	0	0
9	2.95	2.55
10	3	2.55
11	4.27	3.61
12	4.01	3.63
13	0	0
14	8.4	7.39
15	1.45	0.78
16	1.45	0.8
17	4.1	3.63
18	4.1	3.62
19	2.9	2.54
20	2.9	2.55
21,22	8.9	7.96
23,24	2.9	2.55
25	2.9	2.54
26	4.5	3.61
27	3.71	3.62
28	0	0

IC601, LC867132V-5T67

PIN NO.	TAPE	TUNER	CD
1	0.01	0.01	0.01
2	0.02	0.01	0.02
3,4	0.01	0.01	0.01
5	0.01	0.01	0.03
6	0.03	0.03	0.03
7	4.01	4.70	4.61
8	1.7	1.74	1.69
9	2.47	2.52	2.46
10	0.01	0.01	0.01
11	2.08	4.41	2.08
12	2.19	4.84	2.19
13	4.74	4.85	4.74
14	0	4.79	0.02
15	4.93	4.95	4.93
16	4.6	4.73	4.71
17	4.93	4.95	4.93
18	0.73	0.73	0.73
19,20	0.61	0.01	0.04
21	0	4.82	0.01
22~24	0.01	0.01	0.01
25	4.74	4.85	4.74
26,27	0.02	0.03	0.37
28	5.17	5.27	5.17
29	0	2.45	2.37
30	0.38	2.45	2.37
31	2.43	2.41	2.37
32	2.43	0.85	2.43
33	2.40	2047	2041
34	0.6	2.47	2.41
35	2.40	2.46	2.41
36	2.43	2.48	2.41
37	0.6	2.48	2.43
38	2.43	2.48	2.43
39	2.43	2.48	2.39
40	2.43	2.41	2.38
41	4.75	4.85	4.75
42	0.01	0.01	0.01
43	2.43	2.46	2.43
44	2.43	2.48	2.43
45	2.43	2.47	2.41
46	2.43	2.45	2.43
47	2.43	2.42	2.44

PIN NO.	TAPE	TUNER	CD
48	2.43	2.45	2.43
49	2.43	2.42	2.43
50	2.43	2.47	2.43
51	2.41	2.47	2.42
52	2.43	2.47	2.43
53,54	0.01	0	0.01
55	0.01	0	4.68
56	0.01	0	0.01
57	4.75	4.78	0.01
58~60	0.01	0	0.01
61	0.05	0.15	0.42
62	0.04	0.1	0.45
63	0.03	0.61	0.34
64	2.41	2.47	2.41
65	2.42	2.44	2.41
66	2.41	2.48	2.41
67	0.01	1.25	0.04
68	0.01	0	0.01
69	4.74	4.84	4.74
70	0.01	0	4.74
71	0.01	4.85	0.01
72	4.73	4.83	4.74
73	4.75	0.15	4.74
74	0.01	0.01	4.67
75~77	0.01	0.01	0.01
78	0.01	0.01	4.74
79	1.15	0.01	0
80	0.01	0.45	4.74

IC801, NJM14558LD

PIN NO.	TAPE	REC
1	3.37	3.38
2	3.37	3.39
3	3.34	3.35
4	0	0
5	3.34	3.35
6	3.37	3.39
7	3.37	3.38
8	6.83	6.82

Q002

PIN	FM	AM
E	4.82	4.9
C	8	8
B	5.52	5.58

Q003

PIN	FM	AM
E	5.53	5.59
C	5.52	5.59
B	4.85	4.9

Q004

PIN	FM	AM
E	0	0
C	4.06	4.12
B	2.98	3.03

Q052 <EZ,K>

PIN	FM	AM
E	0.01	0.01
C	0.61	0.62
B	4.82	0

Q054 <EZ,K>

PIN	FM	AM
E	4.82	4.81
C	0	4.75
B	4.79	0.03

Q071

PIN	FM	AM
E	0	0
C	0.02	0.01
B	4.42	4.42

Q243

PIN	ACTIVE	STATIC
E	0	0
C	0	0
B	0.12	0.64

Q244

PIN	ACTIVE	STATIC
E	0	0
C	0	0
B	0.12	0.64

Q301

PIN	ACTIVE	STATIC
E	12.2	12.66
C	11.4	12
B	11.5	11.99

Q302

PIN	ACTIVE	STATIC
E	11.5	11.99
C	11.4	12
B	10.9	11.32

Q303

PIN	ACTIVE	STATIC
E	0	0
C	0	0
B	4.57	4.57

Q304

PIN	ACTIVE	STATIC
E	11.38	11.97
C	7.94	7.98
B	10.75	11.34

Q305

PIN	ACTIVE	STATIC
E	7.23	7.26
C	10.56	11.23
B	7.85	7.87

Q306

PIN	ACTIVE	STATIC
E	5.08	5.09
C	7.94	7.98
B	10.75	5.81

Q310

PIN	ACTIVE	STATIC
E	5.55	5.56
C	10.45	10.83
B	6.25	6.26

Q321

PIN	ACTIVE	STATIC
E	0	0
C	0.01	0.02
B	0.6	0.7

Q401

PIN	ACTIVE	STATIC
E	4.46	4.99
C	2.11	1.56
B	3.76	4.35

Q402

PIN	ACTIVE	STATIC
E	7.87	7.97
C	5.3	5.15
B	7.17	7.28

Q403

PIN	ACTIVE	STATIC
E	2.56	2.56
C	2.56	2.56
B	0	0

Q406

PIN	ACTIVE	STATIC
E	0	0
C	4.6	4.6
B	0	0

Q407

PIN	ACTIVE	STATIC
E	4.6	4.58
C	2.57	2.55
B	2.56	2.55

Q408

PIN	ACTIVE	STATIC
E	4.6	4.58
C	2.57	0.55
B	2.56	2.55

Q492

PIN	ACTIVE	STATIC
E	0	0
C	0.14	0.14
B	4.41	4.41

Q810

PIN	TAPE	REC
E	3.36	3.38
C	0.05	13.85
B	0.13	0.13

Q491

PIN	ACTIVE	STATIC
E	7.91	7.98
C	7.88	7.97
B	7.15	7.23

Q801

PIN	TAPE	REC
E	0	1.64
C	0	5.9
B	0	2.31

Q841

PIN	TAPE	REC
E	0	0
C	0.72	0.01
B	0	5.73

ADJUSTMENT <TUNER / DECK / CD>

< TUNER SECTION >

1. AM IF Adjustment

   L007 ..... 450kHz

2. AM(MW) VT Adjustment
   Settings : • Test Point : C39 ⊕ (VT)
   • Adjustment location : L004
   Method : Set to AM 1000kHz(U), MW 999kHz(EZ, K) and adjust L004 so that the test point becomes 3.75V±0.1V(U), 3.8V±0.1V(EZ, K).

3. AM(MW) Tracking Adjustment

   L003 (1/2) ..... 600kHz(U)
   L003 (1/2) ..... 603kHz(EZ, K)
   TC001 ..... 1400kHz(U)
   TC001 ..... 1404kHz(EZ, K)

4. FM VT Adjustment
   Settings : • Test point : C39 ⊕ (VT)
   • Adjustment location : L006
   Method : Set to FM 108.0MHz and adjust L006 so that the test point becomes 6.0V± 0.1V.

5. FM Tracking Adjustment

   L005 ..... 98MHz

6. LW VT Adjustment <EZ, K>
   Settings : • Test point : C39 ⊕ (VT)
   • Adjustment location : L051
   Method : Set to LW 288kHz and adjust L051 so that the test point becomes 4.5V± 0.1V.

7. LW Tracking Adjustment <EZ, K>

   L003 (2/2) 153kHz
   TC051 ..... 288kHz

< DECK SECTION >

8. Bias Frequency Adjustment
   Settings : • Test tape : TTA-602
   • Test point : L801 pin 1
   • Adjustment location : L801
   Method :

   L801 ..... 85kHz ± 2kHz

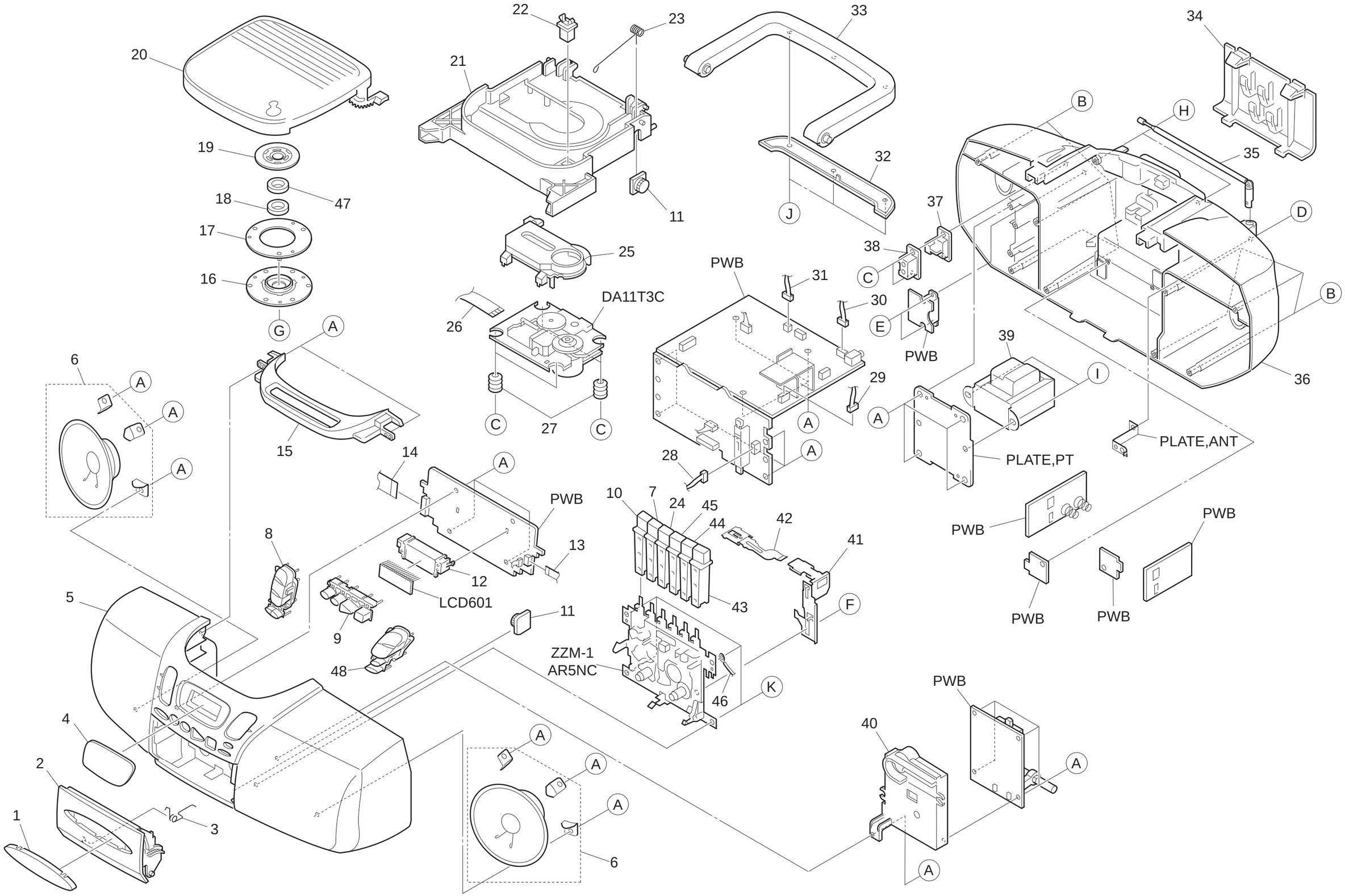
9. Tape Speed Adjustment
   Settings : • Test tape : TTA-100
   • Test point : PHONES JACK (J201)
   • Adjustment location : SFR of deck motor
   Method : Play back the test tape and adjust SFR so that the output frequency is 3000Hz + 90Hz/-60Hz.

10. Azimuth Adjustment
    Settings : • Test tape : TTA-320
    • Test point : PHONES JACK (J201)
    • Adjustment location : Azimuth adjustment screw
    Method : Play back the test tape and adjust the screw so that the output is maximum.

< CD SECTION >

11. Focus Bias Adjustment
    Settings : • Test point : IC401 PIN58 (VREF), IC401 PIN20 (FE)
    • Adjustment location : SFR430
    • Test disc : TCD-782 (YEDS-18) second track
    Method : Play back the disc and adjust SFR430 so that the voltage between the test point becomes 0~-10mV.

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

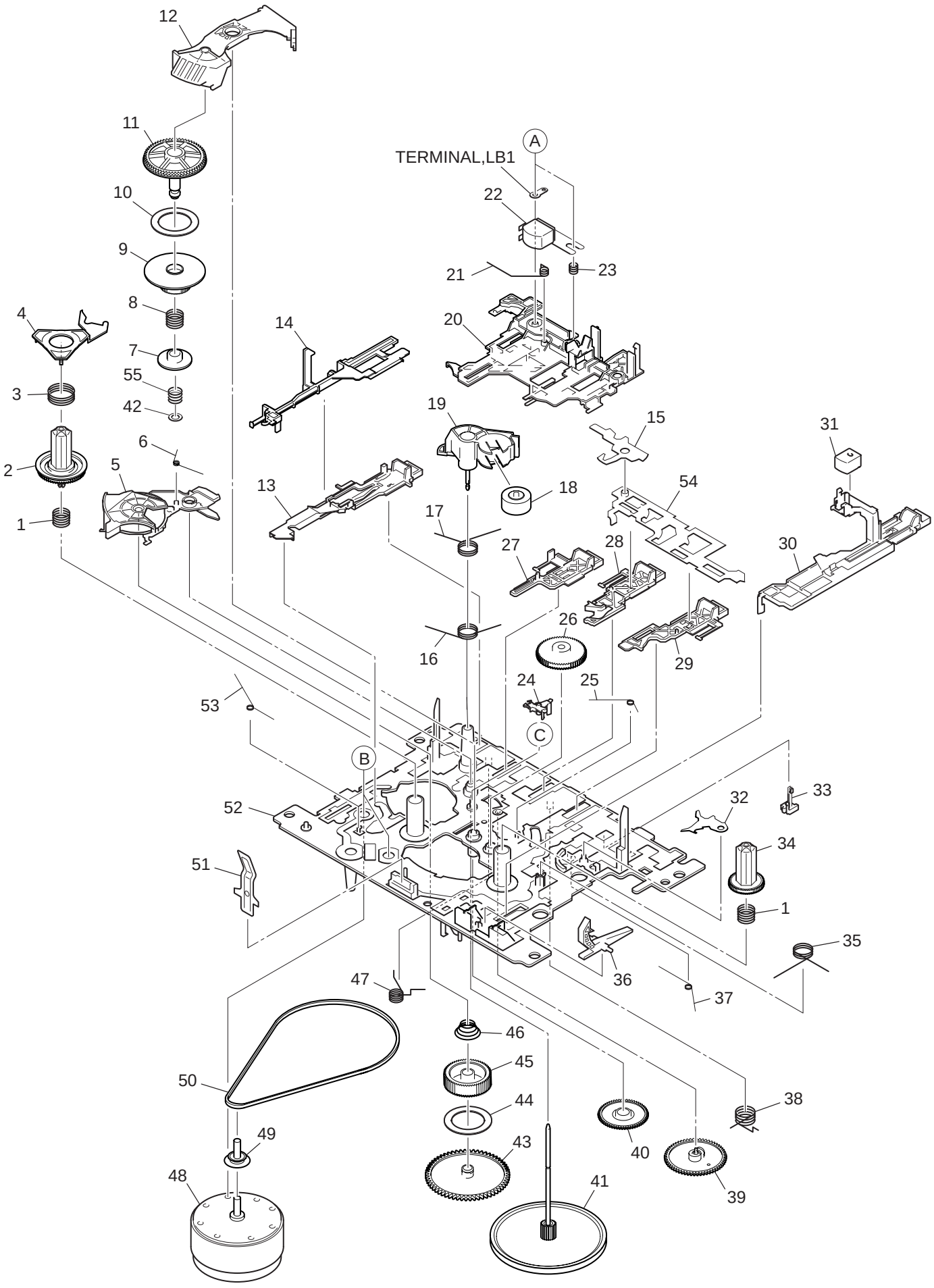
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CDA-113-010		WINDOW,CASS (R)<[R]24EZ>
1	8B-CDA-009-010		WINDOW,CASS<[S]24EZ,[S]24K,[S]26U,[W]27U>
1	8B-CDA-093-010		WINDOW,CASS (G)<[G]24EZ>
1	8B-CDA-073-010		WINDOW,CASS (L)<[L]28U>
2	8B-CDA-003-010		LID,CASS<EXCEPT [W]27U>
2	8B-CDA-132-010		LID,CASS U (W)<[W]27U>
3	8A-CDA-212-010		SPR-T,CASS
4	8B-CHA-025-010		WINDOW,DISP EZ G<[G]24EZ>
4	8B-CHA-012-010		WINDOW,DISP EZ K<[S]24EZ,[S]24K>
4	8B-CHA-026-010		WINDOW,DISP EZ R<[R]24EZ>
4	8B-CHA-015-010		WINDOW,DISP U<[S]26U,[W]27U>
4	8B-CDA-138-010		WINDOW,DISP U (L)<[L]28U>
5	8B-CHA-023-010		CABI ASSY,FRONT EZ G<[G]24EZ>
5	8B-CHA-005-010		CABI ASSY,FRONT EZ K<[S]24EZ,[S]24K>
5	8B-CHA-024-010		CABI ASSY,FRONT EZ R<[R]24EZ>
5	8B-CHA-014-010		CABI ASSY,FRONT U<[S]26U>
5	8B-CHA-019-010		CABI ASSY,FRONT U L<[L]28U>
5	8B-CHA-016-010		CABI ASSY,FRONT U W<[W]27U>
6	8B-CDA-615-010		SPKR,10 7OHM
7	8B-CDA-020-010		KEY,STOP<[S]24EZ,[S]24K,[S]26U,[W]27U>
7	8B-CDA-096-010		KEY,STOP (G)<[G]24EZ>
7	8B-CDA-077-010		KEY,STOP (L)<[L]28U>
7	8B-CDA-116-010		KEY,STOP (R)<[R]24EZ>
8	8B-CDA-015-010		KEY,FUNC A<[S]26U,[W]27U,[L]28U>
8	8B-CDA-017-010		KEY,FUNC C<[S]24EZ,[S]24K>
8	8B-CHA-030-010		KEY,FUNC F<[G]24EZ,[R]24EZ>
9	8B-CDA-014-010		KEY,CD
10	8B-CDA-019-010		KEY,PAUSE<[S]24EZ,[S]24K,[S]26U,[W]27U>
10	8B-CDA-095-010		KEY,PAUSE (G)<[G]24EZ>
10	8B-CDA-076-010		KEY,PAUSE (L)<[L]28U>
10	8B-CDA-115-010		KEY,PAUSE (R)<[R]24EZ>
11	87-063-165-010		OIL-DMPR 150
12	8B-CHA-201-010		HLDR,LCD
13	8B-CDA-622-010		FF-CABLE,8P CD-FR
14	8B-CDA-620-010		FF-CABLE,16P FR-MAIN
15	8B-CDL-008-010		PANEL,TOP<[S]24EZ,[S]24K,[S]26U,[W]27U>
15	8B-CDA-106-010		PANEL,TOP G<[G]24EZ>
15	8B-CDA-107-010		PANEL,TOP R<[R]24EZ>
15	8B-CDA-136-010		PANEL,TOP U (L)<[L]28U>
16	8Z-CT6-213-110		BASE,CHUCK
17	8Z-CT6-214-110		RING,CHUCK
18	87-036-368-010		MAGNET
19	86-CT9-217-110		HLDR,CHUCK A(S)
20	8B-CDA-006-010		LID,CD<[S]24EZ,[S]24K,[S]26U,[W]27U>
20	8B-CDA-104-010		LID,CD G<[G]24EZ>
20	8B-CDA-105-010		LID,CD R<[R]24EZ>
20	8B-CDA-135-010		LID,CD U (L)<[L]28U>
21	8B-CDA-005-010		CHAS,CD<EXCEPT [W]27U>
21	8B-CDA-063-010		CHAS,CD (W)<[W]27U>
22	87-036-389-010		SW,PUSH LOCK
23	8A-CDA-211-010		SPR-T,CD
24	8B-CDA-021-010		KEY,FF<[S]24EZ,[S]24K,[S]26U,[W]27U>
24	8B-CDA-097-010		KEY,FF (G)<[G]24EZ>
24	8B-CDA-078-010		KEY,FF (L)<[L]28U>
24	8B-CDA-117-010		KEY,FF (R)<[R]24EZ>
25	8Z-CDB-169-010		PANEL,CD SANYO
26	8B-CDA-621-010		FF-CABLE,16P CD-RF
27	88-CH6-220-010		CUSHION,CD A
28	8B-CDA-630-010		CONN ASSY,4P RPH
29	8B-CDA-631-010		CONN ASSY,4P TA-ME
30	8B-CDA-633-010		CONN ASSY,4P SP
31	8B-CDA-626-010		CONN ASSY,2P DOOR
32	8B-CDA-010-010		LID,HANDL<EXCEPT [W]27U>
32	8B-CHA-022-010		LID,HANDL W<[W]27U>
33	8B-CDA-007-010		HANDL,ARM<EXCEPT [W]27U>
33	8B-CHA-021-010		HANDL,ARM W<[W]27U>
34	8B-CDA-004-010		LID,BATT<EXCEPT [W]27U>
34	8B-CHA-020-010		LID,BATT W<[W]27U>
35	87-A91-857-010		ANT,ROD 5SEC709
36	8B-CHA-003-010		CABI,REAR<EXCEPT [W]27U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
36	8B-CHA-018-010		CABI,REAR U W<[W]27U>
⚠ 37	87-A60-178-010		JACK,AC E W/SW<EZ,K>
⚠ 37	87-A60-177-010		JACK,AC U W/SW<U>
38	8Z-CD5-634-010		COVER,AC SOCKET
⚠ 39	8A-CDA-612-010		PT,E 2.5W<EZ,K>
⚠ 39	8A-CDA-611-010		PT,U 2.5W<U>
40	8B-CDA-202-010		HLDR,TU
41	8A-CDA-220-010		PLATE,REC
42	8A-CDA-221-010		SPR-P,REC
43	8B-CDA-024-010		KEY,REC<[S]24EZ,[S]24K,[S]26U,[W]27U>
43	8B-CDA-100-010		KEY,REC (G)<[G]24EZ>
43	8B-CDA-081-010		KEY,REC (L)<[L]28U>
43	8B-CDA-120-010		KEY,REC (R)<[R]24EZ>
44	8B-CDA-023-010		KEY,PLAY<[S]24EZ,[S]24K,[S]26U,[W]27U>
44	8B-CDA-099-010		KEY,PLAY (G)<[G]24EZ>
44	8B-CDA-080-010		KEY,PLAY (L)<[L]28U>
44	8B-CDA-119-010		KEY,PLAY (R)<[R]24EZ>
45	8B-CDA-022-010		KEY,REW<[S]24EZ,[S]24K,[S]26U,[W]27U>
45	8B-CDA-098-010		KEY,REW (G)<[G]24EZ>
45	8B-CDA-079-010		KEY,REW (L)<[L]28U>
45	8B-CDA-118-010		KEY,REW (R)<[R]24EZ>
46	87-064-185-010		HLDR,WIRE
47	86-CT9-222-010		PLATE,MAGNET
48	8B-CDA-016-010		KEY,FUNC B
A	87-721-096-410		QT2+3-10 GLD
B	87-751-104-410		VT2+3-30
C	87-751-076-410		SCREW 2.6-12
D	87-254-097-410		U+3-12 CR
E	8A-CK4-223-010		S-SCREW,CD
F	8A-CDA-222-010		S-SCREW,CASS+2.6-4
G	87-751-096-410		VT2+3-10 GLD
H	87-751-097-410		VT2+3-12 W/O SLOT
I	87-501-092-410		VF+3-4
J	87-721-074-410		QT2+2.6-8 W/O SLOT
K	87-751-096-410		VT2+3-10 W/O SLOT

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray

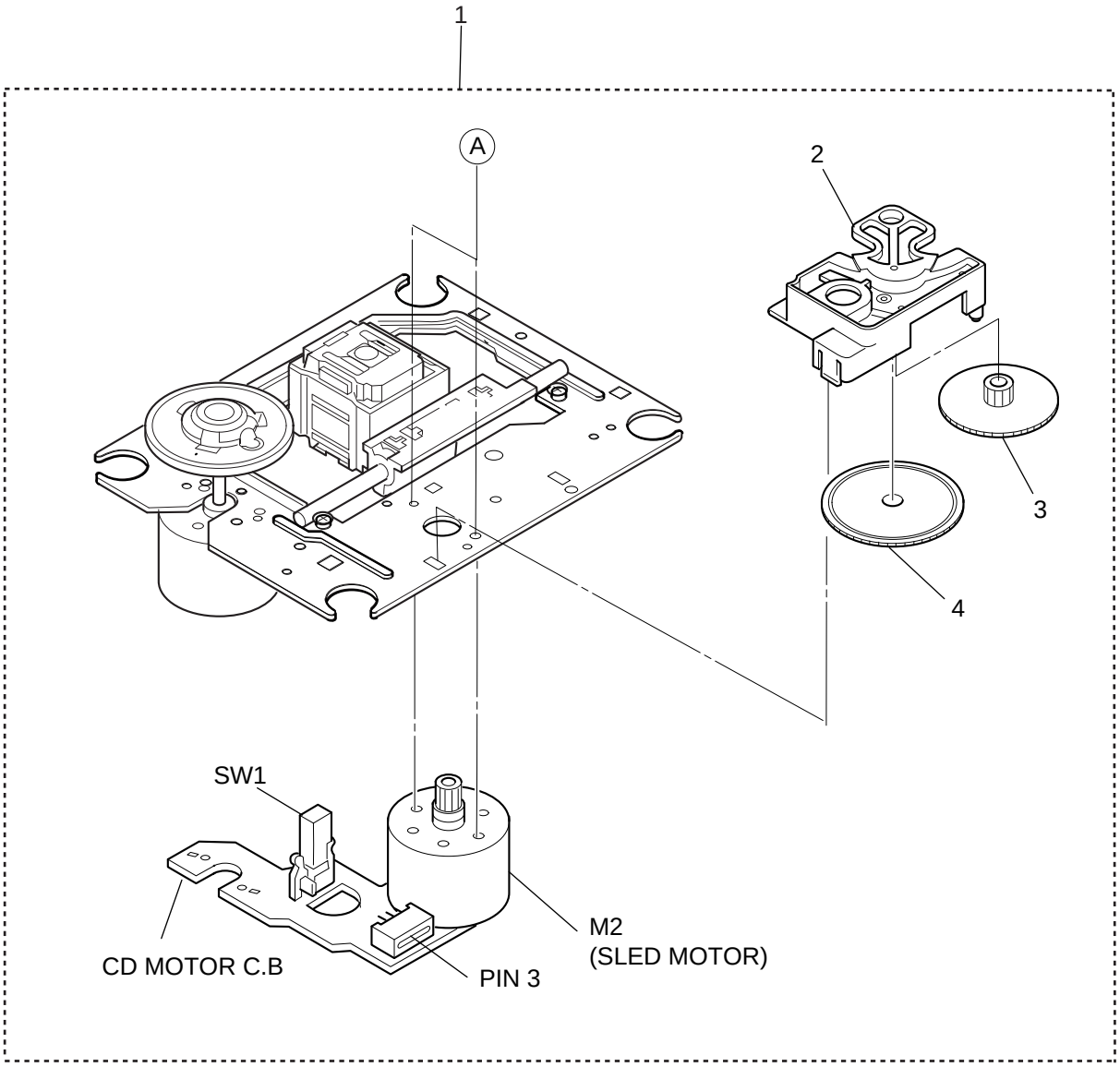
TAPE MECHANISM EXPLODED VIEW 1 / 1



TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM1-254-310		SPR-C,REEL R
2	8Z-ZM1-225-110		GEAR,REEL R
3	8Z-ZM1-253-210		SPR-C,AUTO SENSOR
4	8Z-ZM1-217-110		LEVER,AUTO SENSOR
5	8Z-ZM1-212-110		LEVER,T-UP
6	8Z-ZM1-245-310		SPR-T,AUTO
7	8Z-ZM1-236-010		CLR,SLIP FF/REW
8	8Z-ZM1-252-110		SPR-C,FF/REW
9	8Z-ZM1-230-010		GEAR,SLIP FF/REW A
10	8Z-ZM1-269-010		FELT,FF/REW 2
11	8Z-ZM1-238-110		GEAR,SLIP FF/REW B 2
12	8Z-ZM1-237-110		LEVER,FF/REW 2
13	8Z-ZM1-283-010		LEVER,PAUSE 2
14	8Z-ZM1-222-010		LEVER,E-LOCK M
15	8Z-ZM1-219-010		LEVER,E-OPEN
16	8Z-ZM1-244-110		SPR-T,T-UP
17	8Z-ZM1-247-310		SPR-T,PINCH
18	8Z-ZM1-261-110		ROLLER ASSY,PINCH
19	8Z-ZM1-221-210		LEVER,PINCH
20	8Z-ZM1-205-310		LEVER,PLAY
21	8Z-ZM1-248-210		SPR-T,BRG
22	87-A92-207-010		HEAD,AP-4211T4
23	84-ZM2-227-310		SPR-C,AZIMUTH
24	8Z-ZM1-216-110		LEVER,AUTO
25	8Z-ZM1-246-110		SPR-T,AUTO 2
26	8Z-ZM1-233-110		GEAR,IDL REW
27	8Z-ZM1-208-010		LEVER,STOP
28	8Z-ZM1-207-010		LEVER,FF
29	8Z-ZM1-206-010		LEVER,REW
30	8Z-ZM1-211-210		LEVER,REC 2
31	87-A91-819-010		HEAD,EH 2NSS-2200
32	8Z-ZM1-215-010		LEVER,REC LOCK
33	87-A91-492-010		SW,LEAF MSW18560
34	8Z-ZM1-226-010		GEAR,REEL L
35	8Z-ZM1-241-210		SPR-T,PLAY
36	8Z-ZM1-220-110		LEVER,REC SENSOR
37	8Z-ZM1-249-210		SPR-T,FR
38	8Z-ZM1-242-310		SPR-T,FF/REW
39	8Z-ZM3-244-010		GEAR,CAM TD20
40	8Z-ZM1-232-010		GEAR,IDL FF/REW
41	82-ZM1-290-010		FLY-WHL ASSY,ZZM1
42	8Z-ZM1-275-010		W-L,1.47-4-0.25
43	8Z-ZM1-228-010		GEAR,SLIP T-UP B
44	8Z-ZM1-265-010		FELT,T-UP
45	8Z-ZM1-227-010		GEAR,SLIP T-UP A
46	8Z-ZM1-251-210		SPR-C,T-UP SLIP
47	8Z-ZM1-243-310		SPR-T,STOP/PAUSE
48	87-A91-825-010		MOT,M09Y/Z
49	8Z-ZM1-271-010		PULLEY,MOT ZZM-1
50	8Z-ZM1-264-010		BELT,MAIN S
51	8Z-ZM1-260-010		SPR-P,CASETTE
52	8Z-ZM1-201-910		CHAS ASSY,ZZM-1
53	8Z-ZM1-255-310		SPR-T,E-LOCK
54	8Z-ZM1-214-210		LEVER,LOCK
55	8Z-ZM1-257-110		SPR-C,F/R
A	84-ZM2-242-010		S-SCREW,AZ1-2-6.4
B	8Z-ZM1-270-110		V+2.6 ZZM-1
C	87-B10-301-010		W-L,1.63-3.2-0.5 SLIT

CD MECHANISM EXPLODED VIEW 1 / 1



CD MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	M8-ZZK-E90-070		DA11T3C
2	S2-121-A28-400		COVER GEAR
3	S2-511-A21-000		GEAR MIDDLE
4	S2-511-A21-100		GEAR DRIVE
A	S1-PN2-03R-OSE		SCR PAN PCS 2-3

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